CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, November 23, 1905.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 173
List of Contracts Pending 173
Railways 174
Electric Railways 174
Light and Power Plants 175
Bridges 175
Buildings 175
Water Supply and Irrigation 176
Sewerage 177
Garbage Disposal and Street Cleaning 177
Streets and Roads 177
Manufacturing Plants 178
Miscellaneous Contracts 178
Contract Prices 179
U. S. Possessions and Cuba 179
Foreign Contracts and Export News 179
READERS' WANTS 178
CIVIL SERVICE EXAMINATIONS 180
INDUSTRIAL NOTES 180
PROPOSALS 1

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Nov.				
*24	Dredging	Philadelphia, Pa.	S.	11-9
25	Drainage canals	N. Orleans, La.	S.	10-26
*27	Boiler	Asbury Park, N. J.	P. & S.	11-23
Dec.				
*1	Crusher plant	Portland, Me.	S.	11-23
*2	Drill hall	Cheyenne, Wyo.	P. & S.	11-9
2	Concrete wall	Key West, Fla.	S.	10-19
2	Concrete wall	Cuba	S.	10-19
*5	Dam	Billings, Mont	P. & S.	9-14
*5	City lighting	Philadelphia, Pa.	S.	11-23
9	Electric elevator	Norfolk, Va.	S.	11-16
*15	Irrigation canals	Billings, Mont.	P. & S.	11-23
*15	Telephone system	Billings, Mont.	P. & S.	11-23
*29	Irrigation canal	S. F'ncisco, Cal.	P. & S.	11-23
*	Steel rolled beams	New York	S.	10-12
Jan.				
*2	Water system	Manila	P. & S.	9-21
*12	Sewer system	Manila	P. & S.	9-21
16	Pipe sewers	Boston, Mass.	S.	11-23

*Work advertised in Engineering News.

NOTE—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Nov. 27. Electric light plant, Belle Plaine, Minn. Nov. 16
Dec. 2. Lighting system, Ft. D. A. Russell, Wyo. Nov. 2
Advertised, Eng. News, Nov. 2 to 23.
Dec. 2. Water power, Porto Rico ..... Aug. 17
Advertised, Eng. News, Aug 17 to Sept 14.
Dec. 4. Lighting plant, Abbeville, La. Nov. 23
Dec. 5. City lighting, Philadelphia, Pa. Nov. 23
Advertised, Eng. News, Nov. 23.
Dec. 7. Electric plant, Sparta, Ga. Nov. 23
Dec. 16. Electric plant, Brazil ..... Nov. 9
Dec. 18. Gas plant, Winnipeg, Man. Nov. 16
Advertised, Eng. News, Nov. 16 and 23.

BRIDGES.

Nov. 24. Drawbridge, Tacoma, Wash. Nov. 9
Nov. 24. Bridge, Minneapolis, Minn. Nov. 2
Nov. 27. Bridge, Winamac, Ind. Nov. 23
Nov. 27. Repairing bridge, Fredericton, N. B. Nov. 23
Dec. 2. Bridges, Wichita, Kan. Nov. 23
Dec. 4. Bridge, Gulfport, Miss. Nov. 23
Dec. 6. Bridge, Atlantic City, N. J. Nov. 23
Advertised, Eng. News, Nov. 23 and 30.
Dec. 8. Bridges, Sioux Falls, S. Dak. Nov. 23
Dec. 15. Bridge, Milwaukee, Wis. Nov. 23
Jan. 1. Steel bridge, Pensacola, Fla. Sept. 28
Jan. 1. Bridge, steel, Pensacola, Fla. Nov. 2
Jan. 23. Bridge, Belgium ..... Nov. 2

BUILDINGS.

Nov. 25. Light fixtures, Washington, D. C. Nov. 9
Nov. 25. Building, Washington, D. C. Nov. 16
Nov. 27. School, Hoboken, N. J. Nov. 16
Nov. 27. Quarantine station, Mullet Key, Fla. Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 27. Hospital, etc., Pensacola, Fla. Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 27. Court-house, Enid, Okla. Nov. 9
Nov. 27. Building, Indianapolis, Ind. Nov. 23
Nov. 28. Repairs to armories, New York, N. Y. Nov. 23
Nov. 28. Cells, Kansas City, Mo. Oct. 26
Nov. 23. Hospital, New London, Conn. Nov. 2
Nov. 29. Buildings, etc., Grand Junction, Colo. Nov 2
Nov. 29. Building, West Point, N. Y. Oct. 19
Advertised, Eng. News, Oct. 19, 26 and Nov. 16 and 23.
Nov. 30. Concentrating plant (Mfg. Plants), Comer, Ore. Nov. 16
Dec. 2. Buildings, Philadelphia, Pa. Nov. 2
Dec. 2. Drill hall, Cheyenne, Wyo. Nov. 9
Advertised, Eng. News, Nov. 9 to Dec. 7.
Dec. 2. Court-house, Channing, Tex. Nov. 23
Dec. 4. Electric lighting, New York, N. Y. Nov. 23
Dec. 4. School, Wallingford, Conn. Nov. 23
Dec. 5. Hospital, Paris, Tex. Nov. 23
Dec. 4. Plumbing, etc., Elizabeth, Va. Nov. 16
Dec. 6. School, Monticello, Ind. Nov. 16
Dec. 6. Buildings, Baltimore, Md. Nov. 16
Dec. 7. Buildings, Mt. Pleasant, Mich. Nov. 16
Dec. 7. School house, Laurel, Miss. Nov. 9
Dec. 8. Y. M. C. A. building, Montgomery, Ala. Nov. 16
Dec. 9. Electric elevator, Norfolk, Va. Nov. 16
Dec. 11. Library, Bloomington, Ind. Nov. 23
Dec. 11. Dormitory, Gainesville, Fla. Nov. 23
Dec. 12. Court-house, Fairmont, Minn. Nov. 16
Dec. 12. Capitol building, Bismarck, N. Dak. Oct. 5
Dec. 14. School, Humboldt, Tenn. Nov. 9
Dec. 15. Bank building, Conway, S. C. Nov. 23
Dec. 15. Stable, Ft. Meade, S. Dak. Nov. 23
Advertised, Eng. News, Nov. 23 and 30.
Dec. 20. School, Sanford, N. C. Nov. 23
Dec. 20. Experiment station, Annapolis, Md. Nov. 16
Jan. 4. Post-office, Natchitoches, La. Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Jan. 4. Library, Bloomington, Ind. Nov. 23
Advertised, Eng. News, Nov. 23.
Jan. 10. Post-office, Reno, Nev. Nov. 16
Jan. 15. Building, So. McAlester, Ind. T. Nov. 23
Jan. 31. Library plans, Toronto, Ont. Nov. 23

WATER SUPPLY AND IRRIGATION.

Nov. 25. Concrete reservoir, Fort Miley, Cal. Nov. 9
Nov. 25. Water meters, Cleveland, O. Nov. 23
Nov. 27. Pipe and specials, Portland, Ore. Nov. 9
Advertised, Eng. News, Nov. 9 and 16.
Nov. 27. Boilers, pumps, Fort Screven, Ga. Nov. 9
Nov. 28. Pump house alterations, Fort Dupont, Del. Nov. 9
Dec. 5. Water-works, Perry, Fla. Nov. 23
Advertised, Eng. News, Nov. 16 and 23.
Nov. 28. Water-works, Davis, Ind. T. Nov. 16
Nov. 29. Water mains, New York, N. Y. Nov. 16
Nov. 29. Water mains, New York, N. Y. Nov. 23
Dec. 1. Water-works, Ballinger, Tex. Nov. 9
Dec. 1. Water-works, Ballinger, Tex. Nov. 23
Dec. 4. Water and light plant, Marksville, La. Nov. 23
Advertised, Eng. News, Nov. 23
Dec. 5. Bond sale, Marksville, La. Nov. 23
Advertised, Eng. News, Nov. 23.
Dec. 5. Yellowstone dam, Billings, Mont. Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 26.
Dec. 6. Intake pipe, Auburn, N. Y. Nov. 16
Advertised, Eng. News, Nov. 16 to Dec. 7.
Dec. 6. Water-works, Hammond, La. Nov. 9
Advertised, Eng. News, Nov. 9 to Dec. 7.
Dec. 15. Irrigation canal, etc., Billings, Mont. Oct. 19
Advertised, Eng. News, Oct. 19 to Dec. 14.
Dec. 18. Water and light plant, Abbeville, La. Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 14.
Dec. 29. Irrigation canal, San Francisco, Cal. Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 28.
Jan. 2. Water-works, Philippines ..... Sept. 21
Advertised, Eng. News.

The Advertisers in Engineering News

are prepared to submit bids for furnishing the machinery, tools or equipment for any work, no matter what the size, or where located.

The **Engineers, Technical Experts** and **Contractors** who advertise in Engineering News are also in a position to submit plans and estimates for construction work. When you want work done quickly and well place yourself in correspondence with our advertisers.

SEWERAGE.

Nov. 23. Trunk sewer, Elyria, O. Nov. 9
Nov. 24. Pipe sewers, Shreveport, La. Nov. 9
Advertised, Eng. News, Nov. 9 and 16.
Nov. 27. Pipe sewers, Stowe, Pa. Nov. 16
Nov. 27. Pumping plant, Salem, Mass. Nov. 23
Nov. 27. Pipe sewers, McKeesport, Pa. Nov. 23
Nov. 28. Sewers, Cincinnati, O. Nov. 23
Nov. 28. Storm sewer, Akron, O. Nov. 23
Nov. 28. Sewer system, Oxnard, Cal. Nov. 23
Nov. 28. Dredging, New York, N. Y. Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Nov. 30. Sewer system, Baton Rouge, La. Oct. 26
Dec. 4. Pipe sewer, Brenham, Tex. Nov. 23
Dec. 6. Intercepting sewer, Chicago, Ill. Nov. 9
Dec. 11. Sewerage, Sheldon, Ia. Oct. 12
Dec. 11. Sewers, South Brooklyn, O. Nov. 23
Dec. 16. Pipe sewers, Boston, Mass. Nov. 23
Dec. 19. Pipe sewer, Independence, Kan. Nov. 23
Dec. 20. Sewerage, etc., Bristol, Pa. Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Jan. 12. Sewer system, Philippines. Sept. 21
Advertised, Eng. News.

STREETS AND ROADS.

Nov. 23. Paving, asphalt, Cincinnati, O. Nov. 9
Nov. 25. Walks and curbs, New Orleans, La. Oct. 26
Nov. 28. Paving, Columbus, O. Nov. 23
Nov. 30. Paving, Baton Rouge, La. Oct. 26
Nov. 30. Macadamizing, Delaware, O. Nov. 9
Dec. 1. Paving, etc., Cincinnati, O. Nov. 16
Dec. 4. Road, Union, Ind. Nov. 23
Dec. 4. Paving, Cincinnati, O. Nov. 23
Dec. 5. Road, Brownstown, Ind. Nov. 23
Dec. 6. Road, Paoli, Ind. Nov. 23
Dec. 8. Road, Cincinnati, O. Nov. 16

MISCELLANEOUS CONTRACTS.

Nov. 23. Sluice gates, etc., Chicago, Ill. Nov. 16
Nov. 24. Wharf, Shippegan, N. B. Nov. 16
Nov. 24. Machinery, etc., Washington, D. C. Nov. 16
Nov. 24. Dredging, Philadelphia, Pa. Nov. 9
Advertised, Eng. News, Nov. 9 and 16.
Nov. 25. Drainage canals, etc., New Orleans, La. Oct. 26
Nov. 27. Dredging, etc., New Orleans, La. Nov. 2
Advertised, Eng. News, Nov. 2 to 30.
Nov. 27. Dredging, New York, N. Y. Nov. 9
Advertised, Eng. News, Nov. 9 to 30.
Nov. 27. Garbage crematory, Grand Rapids, Mich. Nov. 9
Advertised, Eng. News, Nov. 9-23.
Nov. 27. Boiler, Asbury Park, N. J. Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Nov. 27. Concrete wall, Cincinnati, O. Nov. 16
Nov. 27. Fire alarm systems, New York, N. Y. Nov. 23
Nov. 27. Street signs, McKeesport, Pa. Nov. 23
Nov. 28. Pipe system, New York, N. Y. Nov. 16
Nov. 28. Drills, Pipe, etc., Washington, D. C. Oct. 26
Nov. 28. Fire alarm, Mare Island, Cal. Oct. 19
Dec. 1. Electric Ry. construction, Richmond, Va. Nov. 23
Dec. 1. Cement piles, New York, N. Y. Nov. 23
Dec. 1. Crusher plant, Portland, Me. Nov. 23
Advertised, Eng. News, Nov. 23.
Dec. 2. Concrete quay wall, Cuba. Oct. 19
Dec. 2. Concrete wall, Key West, Fla. Oct. 19
Dec. 2. Concrete wall, Key West, Fla. Oct. 19
Dec. 5. Machine tools, Washington, D. C. Nov. 9
Dec. 5. Drainage ditch, Fort Dodge, Ia. Nov. 16
Dec. 5. Sand, cement, etc., Washington, D. C. Nov. 16
Dec. 6. Riprap jetty, etc., New York, N. Y. Nov. 16
Advertised, Eng. News, Nov. 16 to Dec. 7.
Dec. 7. Wharf, Charleston, S. C. Nov. 9
Advertised, Eng. News, Nov. 9 to Nov. 30.
Dec. 5. Cement, lamps, pipe, etc., Wash., D. C. Nov. 23
Dec. 8. Pipe, fittings, etc., Washington, D. C. Nov. 23
Dec. 10. 21-mile Ry., Brookville & Mahoning Ry. Nov. 23
Advertised, Eng. News, Nov. 23.
Dec. 10. Elevator, tools, Washington, D. C. Nov. 16
Dec. 11. Dredging, New York, N. Y. Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 14.
Dec. 12. Lamps, generator, etc., Wash., D. C. Nov. 16
Dec. 12. Dam, Wheeling, W. Va. Nov. 9
Advertised, Eng. News, Nov. 9 to Dec. 14.
Dec. 15. Telephone system, Billings, Mont. Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 14.
Dec. 15. Railways, Philippines ..... Sept. 21
Dec. 13. Brass goods, pipe, Vancouver, B. C. Nov. 16
Dec. 18. Metal work, Philadelphia, Pa. Nov. 23
Advertised, Eng. News, Nov. 23 and 30.
Dec. 18. Chanoine wickets, Pittsburg, Pa. Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 21.
Dec. 22. Dredging, etc., Richmond, Va. Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 21.
Dec. 27. Lock, dams, wall, Chicago, Ill. Nov. 2
Advertised, Eng. News, Nov. 2.
Jan. 1. Statue, Indianapolis, Ind. ..... July 20
Advertised, Eng. News, July 20.
Jan. 2. Railway, Chile. Aug. 24
Advertised, Eng. News, Nov. 9 to Dec. 28.
Jan. 9. Wharf work, New Zealand. Nov. 2
May 1. Steel dock, Chile. Nov. 9

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA & ELBERTON.—This company is reported to have sold bonds for construction of its railway from Augusta to Little River, 15 miles. J. R. Hogan, of Augusta, is interested.

BALTIMORE & OHIO.—An officer of the Baltimore & Ohio Railroad Co., states that there is nothing in the press report that this company is arranging to build a line from Clarksburg, W. Va., to Belington, W. Va., to be known as the Elk River Railroad. This was noted last week.

The company has awarded contracts as follows: To W. J. MARSON & CO., of Akron, O., signal towers, coal and oil houses at Flushing tunnel, Ravenna, Lowellville, Nova and Kent, O. To J. J. WALSH & SON, of Baltimore, Md., the construction of two signal towers at Washington, one for each part of the "Y" connection. These signal towers are to be two stories high, the first built of brick and the second having copper facing. They will be covered with tile floors. The seven towers will cost about $40,000. HOLBERT & SPEDDEN, of Fairmont, W. Va., have been awarded a contract to erect a four-stall engine house and ash pit at Bridgeport, at a cost of about $10,000. W. A. LILLER, of Keyser, W. Va., will build a saw mill at Glenwood, Pa., that will cost about $14,000. NIEDERMEIER & RESTLE, of Youngstown, O., have the contract to construct a four-stall engine house, ash pit, coal tipple and turntable, all at Haselton, O., at a cost of about $15,000.

BAY CITY & PORT HURON.—Route has been surveyed for this railway from Bay City to Port Huron, Mich. E. V. Ingersoll, of Bay City, is interested. J. G. White & Co., 43 Exchange Pl., New York, are Engrs. Construction may be undertaken this fall or early next spring. The road will be about 80 miles long.

BEAUMONT & GREAT NORTHERN. — Construction is being pushed on the road from Trinity to Livingston, Tex., 37 miles, by LAMB & HANSEN, the contractors, of Trinity, Tex. It is expected to reach White Rock Creek, seven miles from Trinity, by November 20. Beyond White Rock Creek the grading is being pushed, and it is expected to have the road in operation to Onalaska, 20 miles, from Trinity, by May 1, 1906. From Onalaska to Livingston the work is through a rough and hilly country with numerous waterways. C. A. Noblett, Trinity, Tex., is Ch. Engr. Previously noted.

BROOKVILLE & MAHONING.—Bids are asked to the Brookville & Mahoning R. R. Co., Brookville, Pa., until noon Dec. 10, for the construction of about 21 miles of railroad involving about 500,000 cu. yds. excavation, 200,000 cu. yds., borrowed embankment, 20,000 cu. yds. bridge and culvert masonry, 700,000 lbs of 12-in., 18-in. and 24-in. culvert pipe, and 1,900 tons of steel bridges and viaducts. W. W. Henshey, Ch. Engr., Brookville, Pa. (Advertised, Engineering News.)

CENTRAL R. R. OF N. J.—Company will spend about $1,500,000 in improving its freight and passenger terminal at Jersey City, N. J. Work includes a large amount of filling, to redeem swamp land along New York Bay. J. A. TAYLOR, of Jersey City, has contract. Dredging and new docks, piers and coal trestles will be among the improvements to be made. J. O. Osgood is Ch. Engr., at Jersey City.

CENTRAL RY. OF. OREGON.—This railway, noted on Nov. 2, will be 46 miles long, it is announced. T. W. Davidson, of Union, Ore., Pres. of Oregon Development Co., is interested. Surveys have been completed and grading will begin at once. A. B. Browe, Union, Ore., is Ch. Engr., and Harvey Harding, 104 State St., Boston, Mass., is Pres. The line will extend from Hot Lake to Union and Summerville, Ore.

DELAWARE & SOUTHERN.—This company has been incorporated in New York state to build and operate a steam railroad from Deposit to Trout Creek, Delaware County, N. Y., a distance of 17 miles. The capital is $170,000. The directors are: Charles P. Knapp, Deposit; William O. Dennis, Trout Creek; George H. Perigo, Scranton, Pa., and others.

DENVER & SOUTHEASTERN.—This company has been incorporated by the Platte Canyon Fuel & Power Co., in Colorado, to build a railroad from Denver, Colo., to Raton, N. Mex., and to Amity, Colo. Capital stock, $1,000,000. The directors of the railroad company are L. W. Herring, Elder H. Tunis, H. Ogle Tunis, T. B. Doane, W. O. Temple and William C. Berlin, of Denver; and I. C. Cockey, of Washington, D. C.; F. A. Sherwood, of Philadelphia, and T. Dulaney Whiting, of New York City.

DUE WEST.—Bids are asked by R. S. Galloway, Due West, S. C., until Dec. 1, for grading 4½ miles of railway for the Due West Co., from Donalds to Due West. Noted on Nov. 2.

GREAT NORTHERN.—It is reported that contracts will be let probably next month for building a branch from Somers to a point on the Northern Pacific Ry. A. H. Hogeland is Ch. Engr., at St. Paul, Minn.

GREAT SOUTHERN.—Surveyors are running a line for the proposed extension, about 22 miles long, from Dufur, Ore. J. G. Heimrich is Gen. Mgr., at The Dalles, Ore.

IOWA & ST. LOUIS.—An extension may be built from Mercyville to St. Louis, Mo., via Mexico, Mo. C. M. Carter is Secy., at St. Joseph, Mo., and W. G. Brimson is Gen. Mgr., at Kansas City, Mo.

KANSAS CITY SOUTHERN.—Improvements will be started at once for improving the Kansas City, Mo., terminal. Estimated cost is $5,000,000. A. F. Rust is Engr., at Kansas City.

KENTUCKY MIDLAND.—G. B. Hengen, Pres., Monadnock Block, Chicago, states that this railway will be 27 miles long. It will extend from Madisonville, Ky., to Central City, Ky., with a 3-mile branch to the Midland Coal Co.'s mines. Line will be standard gage; right-of-way 100 ft. wide. Henry D. Laughlin is vice-Pres.; Robert W. Dunlop is Secy.; M. M. Wheeler, of Earles, Ky., is Ch. Engr., The company will do its own construction. It is expected to begin work within 30 days.

KNOXVILLE, SEVIERVILLE & NEWPORT.—Chartered to build a railway from Knoxville to Rockford, Sevierville and Newport, Tenn., about 50 miles. S. P. Condon, John B. Brabson, B. D. Brabson, Pryor Brown and Jerome Templeton, of Knoxville, are interested in company's incorporation.

LATHROP-HATTEN RY.—Frank W. Lathrop, Gen. Mgr. and Pres., Riverside, Ala., states that company will build a 5-mile extension south of Pell City, Ala. Work of construction will begin soon.

LOUISIANA WESTERN.—E. B. Cushing, Gen. Supt., at New Orleans, La., announces that construction probably will begin early next year on the authorized line from Lafayette, La., to the Mississippi River opposite Baton Rouge, La., about 52 miles. Other contemplated extensions are as follows: The Arnaudville branch to Port Barre; the Lockport branch to Cut-Off; the Eunice branch to Bayou Cocodrie, and a line north from Lake Charles.

LOUISVILLE & NASHVILLE.—It is reported that EDINGTON, GRIFFITH & CO., of Knoxville, Tenn., will build a line 34 miles long, from Pineville, Ky., to Williamsburg.

NORTH COAST.—Engineers are running final surveys for this company's line in Washington which will connect Tacoma and Seattle with other large cities. It will be 162 miles long. The officers of the company are: Frank A. Dudley, Niagara Falls, N. Y., Pres.; R. E. Strathorn, vice-Pres. and Gen-Mgr.; A. G. Smith, Secy. and Treas.; Henry J. Pierce, Buffalo, N. Y.; J. G. White, New York; John H. McGraw, James A. Kerr, Seattle; A. Fechter and John J. Rudkin, Spokane, are directors.

NORTHERN PACIFIC.—It is announced that a branch will be built from Ashland Junction to Washburn, Wis., about eight miles.

NORTHERN PACIFIC TERMINAL CO.—This company will construct a system of overhead bridges over its tracks in terminal yards, at Portland, Ore., at a cost of $200,000. Structures will be of light iron construction. E. Lyons, Portland, is Mgr.

NOVA SCOTIA.—A company has been formed at Truro, N. S., with a capital of $200,000 to construct railway from Truro to Parrsboro, N. S., and from Parrsboro to Maccan, N. S. W. H. Magee, Truro, is interested.

OKLAHOMA CENTRAL.—We are informed that surveys all have been made and right-of-way secured and also capital for construction. Contract for constructing the railway has been let to the CANADIAN VALLEY CONSTRUCTION CO., of Lehigh, Ind. T. Dorset Carter, Purcell, Ind. T., is Pres. and R. L. McWillie, Lehigh, is Ch. Engr. The line is to be 130 miles long, extending from Lehigh to Tupelo, Ada, Byers, Purcell and Chickasha, Ind. T.

OREGON R. R. & NAVIGATION CO.—J. P. O'Brien, Gen. Mgr., at Portland, Ore., according to local news report, has announced that the railways controlled by E. H. Harriman in Oregon will spend $4,180,000 on new construction work. An appropriation of $593,000 has just been made for replacing with steel structures every wooden bridge between Portland and Ashland, Ore. Right-of-way for the Drain-Marshfield line is being rapidly secured, and the rails have been ordered for construction of this branch early next year. The sum of $3,200,000 has been appropriated. The distance is 81 miles. Construction of the Lewiston-Riparia line, 71 miles, will cost $2,000,000. The Elgin-Joseph branch, now under construction, will cost $1,306,000. It will be 63 miles long. Surveys have been completed and condemnation of right-of-way begun for the St. Johns cut-off to Clarnie, three miles; construction to cost $82,580. The Springfield-Henderson cut-off, a little more than one mile, will cost $147,310. The Lafayette-St. Joseph cut-off, two miles, will cost $43,647.

PORTLAND & SEATTLE RY.—SIEMS & SHIELDS, of St. Paul, Minn., the general contractors, have sublet contracts as follows: PORTER BROS., Spokane, immediately east of Cape Horn, understood to be for 15 miles of grading; PAT WELCH, Spokane, the next section, and the following firms in the successive order named of sections of the grade from Vancouver, Wash., toward Kennewick: GRANT, SMITH & CO., St. Paul; E. N. JONES & ONRUD, Spokane; COCHRAN & WOLSON, Sioux Center, Ia.; TWOHY BROS., Spokane; WINTER, PARSON & BOOMER, Spokane; GRANT, SMITH & CO., St. Paul (additional to first section); W. F. MULLIGAN, Spokane; RENN & GREENOUGH, Spokane. These sections aggregate about 190 miles of the total distance of 244 miles. As previously noted in Engineering News, under the name of the Portland & Seattle Ry., the Great Northern and the Northern Pacific companies will build a join line from Kennewick to Vancouver, Wash., 244 miles. Incorporators were J. Couch Flanders, C. F. Adams, S. B. Linthicum, John S. Baker and James D. Hodge. The officers are: J. Couch Flanders, Pres.; S. B. Linthicum, Secy.; C. F. Adams, Treas. Capital stock, $5,000,000. E. J. Pearson, St. Paul, Minn., is Ch. Engr.

SAN FRANCISCO, IDAHO & MONTANA.—Financial arrangements have been made, it is reported from Minneapolis, for building 210 miles of this road, which is projected from San Francisco, Cal., to Butte, Mont., 923 miles. The first section to be built will be from the Snake River Valley in Idaho southwest to Winnemucca, Nev. William Peyton Mason, of Minneapolis, Minn., is Pres., of the company, and John Q. Burbank is Ch. Engr., with headquarters at Boise, Idaho. Construction work will be done by the San Francisco, Idaho & Montana R. R. Construction Co. Construction will begin at once and it is planned to have the first section in operation about Jan. 1, 1907.

WASHINGTON.—The Bellingham Chamber of Commerce has adopted plan to raise $1,400,000 subsidy for building a railroad from Bellingham to Spokane, Wash., about 300 miles in length. Frank C. Teck is Secy. If undertaken, the work of construction must commence by May 1, 1907, and must be completed by May 1, 1910. The estimated total cost is placed at about $8,000,000. Five citizens of Bellingham were named as trustees of the subsidy for this city. They are O. P. Brown, L. H. Hadley, George E. Gage, B. W. Huntoon and Daniel Campbell.

WEST TEXAS & NORTHERN.—This company has been chartered in Texas, with $500,000 capital stock. It will extend from Kerrville through the counties of Kerr, Gillespie, Mason, Kimble, Menard, Concho, Tom Green, Coke, Sterling, Glasscock, Howard, Martin, Dawson, Lynn, Lubbock, Hale, Swisher, Randall and terminate at a point near Amarillo, Tex., 450 miles distant. Incorporators are E. P. Spears, J. T. and J. W. Pinson, John T. Witt, E. H. D. Caston, H. D. Wilhite, of Dallas, and W. P. Edwards, W. R. Cole, G. L. Brown and S. H. Morrison, of Big Springs. The company is to locate its principal business office at Big Springs, Tex.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

HARTFORD, CONN.—It is announced that the Hartford & Worcester St. Ry. Co. will make immediate preparation for building its line from Hartford to Worcester, Mass. H. C. Trebon and B. D. Sumner are reported to have established offices at Charlton, Mass. As previously noted in Engineering News, this line will be practically a continuation of the Boston & Worcester Ry. James F. Shaw, 8 Congress St., Boston, is Pres.

NORWICH, CONN.—We are advised that the railway to be built by the Norwich, Jewett City & Voluntown St. R. R. Co. will be 18 miles long, via Preston, Griswold and Voluntown. Definite plans have not been made, but it is expected that everything will be ready for letting contracts next spring. Previously mentioned.

R. W. Perkins, of Norwich, a promoter of the Norwich & Westerly Ry., states that company has purchased right-of-way between Norwich and Westerly, nearly the entire distance. Grade will not be over 3½% at any point.

JERSEY CITY, N. J.—It has been reported that the Northern R. R. of N. J., controlled by the Erie R. R. Co., would be converted into an electric railway, from Jersey City to Nyack, N. Y. J. H. Maddy, Special Representative, 21 Cortlandt St., New York, informs us that no steps have been taken by the Erie R. R. for electrifying this line.

GREENVILLE, PA.—The Shenango Traction Co., which proposes to build a line from New Castle to Meadville via Sharpsville, Sharon, Greenville and Conneaut Lake, will make application Dec. 5 for charters for the following railways: New Castle Northern & New Castle Central, covering New Castle; Northern Middlesex, covering West Middlesex, and south to New Castle, north to Wheatland; Shenango Southern, covering Wheatland; Shenango Midland, covering Sharon and South Sharon; Shenango Northern, covering Sharpsville and vicinity. The incorporators are James D. White, E. A. Henry and C. G. Glatzau, of Pittsburg; Edwin C. Ripley, of Sherman, N. Y., and W. H. Waugh, of Greenville.

ALLEGHENY, PA.—Application for franchises have been made by the Watson Avenue St. Railway Co. and the Marshall Avenue St. Railway Co. The following are named as officers: William Kaufman, Horace G. Gallinger, Daniel McNeil, H. C. Lippincott and Myer B. Gallinger. H. G. Gallinger, according to "Pittsburg Dispatch," has stated that the companies are amply financed and that if charters and franchises are secured the lines will certainly be constructed.

FREDERICK, MD.—The Business Men's Association is interested in project to build the Washington, Frederick & Gettysburg Ry. from Frederick to Thurmont. D. Columbus Kemp is Pres. and Charles C. Waters, Secy. of the company.

BUCKHANNON, W. VA.—W. E. Hildebrand, of Clarksburg, W. Va., is promoting an electric railway between Clarksburg and Buckhannon.

NORFOLK, VA.—Construction probably will begin at once on the Ocean View & Pine Beach Electric Ry. Surveys are made and also plans and specifications. H. L. Page is Pres. The line will be four miles long. Noted on Nov. 2.

FALLS CHURCH, VA.—We are advised that the proposed Washington & Virginia Transit Co. will be about 35 miles long, from Glencarlyn to Falls Church, Fairfax and Aldie. M. E. Church, of Falls Church, is Pres. and Howell & Taylor, Huyler Bldg., Washington, D. C., are Engrs. Surveys have not been made and only a small part of the right-of-way is secured. Contracts will not be awarded until surveys have progressed and capital is secured. Company was chartered in July with $100,000 capital.

RICHMOND, VA.—Bids are asked until Dec. 1 by C. P. E. Burgyn, Ch. Engr., Richmond & Chesapeake Bay Ry., at 519 Mutual Bldg., Richmond, for constructing portions of this company's railway.

MORGANTOWN, W. VA.—We are advised that the Sabraton Ry. Co. has completed three miles of its line. Two miles additional will be built and will be completed by next summer. The line is to extend from Sabraton to Rock Forge, Richards and Dellslow, through the industrial section of Deckers Creek valley. Russell L. Morris is Pres. and J. Ami Martin, Ch. Engr., at Morgantown.

BILTMORE, N. C.—We are informed that at an early date an engineer probably will make surveys for the Appalachian Interurban Ry. Company is waiti[illegible] townships through which it [illegible] votes of $90,000 have been voted al[illegible]. About will be 65 miles long. It w[illegible]. The line from Biltmore to Mills R[illegible] [illegible]structed Batcave, Chimney Rock, [illegible] Horseshoe, Gaffney, S. C. J. W. Woffo[illegible] [illegible] and W. A. Smith, Pres., at Hend[illegible] [illegible]y, and [illegible] N. C.

ANDERSON, S. C.—The d[illegible] of the Anderson Traction Co. have [illegible] meeting of the stockholders, to be held [illegible] 5, to vote on proposition to increa[illegible] capital stock to $280,000. The plan [illegible] submitted to the stockholders will be to [illegible]ly half of this stock at present, the [illegible] to be used in building the line from [illegible]rson to Belton. As soon as the line [illegible] [illegible]eted to Belton it will then be extended [illegible] Williamston and Pelzer and thence [illegible]nville. George E. Coughlin, at Ander[illegible] Gen. Mgr.

KNOXVILLE, TENN.—The [illegible]ville & Maryville Electric Railway Co. [illegible] been organized with $100,000 capital [illegible] build an electric railway from Knox[illegible] Maryville, a distance of 16 miles, a[illegible] electric power for lighting purpo[illegible] company will build a dam on the Littl[illegible] near Rockford. The officers are: [illegible], Dr. W. S. Nash; vice-Pres., Robert [illegible] Secy., Howard Cornick; Treas., Jos. P[illegible] Directors, Dr. W. S. Nash, R[illegible] Vestal, Howard Cornick, Joseph P. Gau[illegible] Sterchi, W. T. Parham and Joseph [illegible].

NASHVILLE, TENN.—We are [illegible]ed by Daniel A. Lindsey, Chn. Ma[illegible]urers' Committee, of Chamber of Com[illegible], regarding newspaper reports tha[illegible] had been revived to build the McMinn[illegible] Woodbury & Nashville Ry., that "thi[illegible] [illegible]ect is only in its initial stage, having [illegible] given some untimely and detrimental [illegible]blicity. The promoters of the original line [illegible] and the new company is not yet rea[illegible] to seek anybody but capitalists."

NASHVILLE, TENN.—We are [illegible] that right-of-way has nearly all been [illegible]red for the Nashville, Crocker Springs & Ridgetop Ry. Survey is now being made. Capital is partly secured and company has financial propositions and offers under consideration. The line will be 25 miles long, from Nashville to Crocker Springs, Goodlettsville and Ridgetop. Gasoline motors will be used. W. P. Ready is Pres., 19 Arcade, Nashville; H. G. Hill, Nashville, is Secy.

CINCINNATI, O.—The Cincinnati Belt Railroad Co., capital $10,000, has been incorporated by G. W. Jacobs, Joseph P. Peurrung, O. C. Evans, K. F. Beckhardt and V. Q. Price, of Cincinnati. The company plans the construction of a belt line railroad for freight and passenger service, to be built around the city from Winton Place to Norwood and to Red Bank, in the East End. Later it is proposed to extend the line into Kentucky, by agreement using one of the present railroad bridges spanning the Ohio River, and building the road up to Ft. Thomas. The capital of the company will be increased later when arrangements to finance the construction of the road are made.

OBERLIN, O.—We are advised that contracts will not be awarded until next spring for building the Oberlin & Lorain Ry. Right-of-way is secured. William A. Donalson and C. F. Herrick, of Lorain, O.; W. F. Stanley, of Conneaut, O.; M. D. Skeels, George C. Westervelt and others, of Oberlin, are the promoters. The line will be 15 miles long, extending from Oberlin to Lorain via South Amherst and North Amherst.

CANTON, O.—John E. Monnot, of Canton, Atty. for the Canton & Youngstown Elec. Ry. Co., has stated that construction of this railway will be begun probably early next spring. Private right-of-way is secured. Surveys are under way.

TOLEDO, O.—We are advised by Walter A. Calhoun, Consult. Engr., Mutual Life Bldg., Buffalo, N. Y., that SULLIVAN & CO., of Detroit, Mich., have contract for grading about 15 miles, near Napoleon, O., of the electric railway which the Cincinnati, Toledo & Detroit Short Line Co. will build. Contracts for power, overhead equipment, rails, ties, etc., have not yet been awarded. The GARDNER COMPANY, 210 Meredith Bldg., Toledo, O., and 1123 Broadway, New York, has the contract to build and equip the entire line, 220 miles of single-track road, between Toledo and Cincinnati, through the counties of Lucas, Henry, Defiance, Paulding, Van Wert, Mercer, Darke, Preble, Butler and Hamilton. The road will be constructed on standard steam line specifications, with electric equipments; 70-lb. steel rail. It will be built on its own private right-of-way, except through incorporated towns and cities, and will parallel the highway for the greater part of its length. There will be but few curves. Right-of-way and franchises have been obtained for practically the entire distance, and the necessary legal and other steps are being taken to secure the remainder, most of which is substantially assured. T. Rhys Smith is Ch. Engr. W. P. Engel is Supt. of Construction, at Defiance, O. In addition to the contract with the Cincinnati, Toledo & Detroit Short Line railway, the Gardner Company is interested in the Maysville, Carlisle, Millersburg & Paris Traction Co., in Kentucky, where engineers are completing surveys, and will begin construction as soon as the necessary engineering is complete.

INDIANAPOLIS, IND.—We are informed that the Indianapolis, Huntington, Columbia City & Northwestern Ry. Co. has awarded contract to the AMERICAN ENGINEERING CO., of Indianapolis, to construct its line, which will be 155 miles long. This was noted on Nov. 2 in Engineering News. The railway will extend from Indianapolis to Noblesville, Marion, Huntington, Columbia City, Syracuse and Goshen, all in Indiana. Benj. Raufer is Pres., Columbia City, Ind. Surveys have been made and right-of-way obtained. Capital is not yet secured.

SIOUX CITY, IA.—H. W. Weldon, right-of-way agent for the Sioux City & Ireton Interurban Co., has stated that surveyors are in the field making the final and location survey of the proposed line. The survey will be

completed and the profiles and plats will be prepared soon. The line will be 36 miles long. Right-of-way has been secured for distance of 20 miles. We were informed recently that Wakefield & McCrary, of Sioux City, are Engineers for the company.

ROSWELL, N. MEX.—J. W. Hall of Memphis, Tenn., said to be representing eastern capitalists, applied for a franchise for the establishment of an electrical street car system in the city.

SPOKANE, WASH.—Authority has been granted to the Spokane & Inland Electric Ry. Co. for an extension from Waverly to Rosalia, Wash., 21 miles. It is stated that bids for construction will be received at once by F. A. Blackwell, vice-Pres., at Coeur d'Alene, Idaho. A. J. Luffer is Ch. Engr., at Spokane.

BELLINGHAM, WASH.—The Nooksack Valley Rapid Transit Co. has been incorporated to take over the franchise granted by the county commissioners to Edward Brown and associates. Company will construct a railway from Bellingham to Marietta, Fernvale, Custer, Birch Bay and Blaine; and another line from Lynden and Sumas, with privilege of branching Everson and Nooksack; also a line from Custer to Lynden. Capital stock is $500,000. The incorporators are Ed. Brown of Custer; James Morrison and J. William Welch, of Ferndale; A. J. Welch and J. W. Ross, of Bellingham, and W. L. Hart, of Custer.

SANTA CRUZ, CAL.—The Union Traction Co., which operates the electric railway from Santa Cruz to Capitola, will commence work on the proposed extension from Capitola to Soquel as soon as right-of-way is secured. W. J. Forgens is Gen. Mgr.

SAN FRANCISCO, CAL.—The California Midland Railway Co., has been incorporated at San Francisco, to construct an electric railway system connecting Grass Valley, Auburn and Marysville. About 70 miles of standard-gage road will be built. The capital stock of the new company is $3,000,000, of which $70,000 has been subscribed by John Martin, Geo. H. Sussman, John W. Pryor and Walter J. McLean, all of San Francisco; and Eugene J. De Sable, Jr., of San Mateo.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BUFFALO, N. Y.—Bids were received on Nov. 10 for furnishing and installing 400,000 ft. of single conductor No. 14 rubber covered wire in Cataract Power & Conduit Co.'s conduit as follows: Standard Underground Cable Co., Pittsburg, Pa., $5,339; Buffalo Electrical Contracting Co., $5,900; Robertson Electric Co., $6,100; F. P. Little Electrical Co., $6,600; McCarthy Bros. & Ford, $9,990.

Bids were also received for transformer and its auxiliary apparatus necessary. The lighting transformer being designed to take current from the 11,000-volt step-down transformer. The bids were as follows: F. P. Little Electrical Co., $1,753; Buffalo Electrical Contracting Co., $2,400; McCarthy Bros. & Ford, $2,896; Allis-Chalmers Co., $3,250.

QUINCY, MASS.—Levi H. Turner has petitioned City Council to take measures to secure, by purchase or otherwise, a municipal gas and electric light plant. John J. Byron is also interested. Noted on Nov. 2.

NEWARK, N. J.—Bids are asked by Joint Committee on Newark Free Bridges, John W. Roche, Chn., until 2.30 p. m., Nov. 23, for substituting a steam plant for the electric plant now in use on the Jackson St. bridge over the Passaic River.

PHILADELPHIA, PA.—In regard to improvements by the Juniata Hydro Electric Co., S. L. Brumbaugh, Gen. Mgr., Perry Bldg., states that the construction of the proposed electric plant on Juniata River will cost about $1,000,000. Bids for excavation, steam shovel work, etc., will be received in about 30 days. Bids for electrical equipment will be received about Jan. 1. Wm. H. Cushman is Engr. Noted last week.

PHILADELPHIA, PA.—Bids were opened at the Bureau of Yards and Docks, Navy Dept., on Nov. 18 for furnishing and installing underground lead-incased, braid-covered, arc and incandescent lighting cables, at the U. S. Navy Yard, League Island, Pa. Bids were as follows: Standard Underground Cable Co., Pittsburg, $13,165; John A. Roebling Sons Co., 117 Liberty St., New York, $12,911.

PHILADELPHIA, PA.—Bids are asked by Department Public Works, A. Lincoln Acker, Dir., until noon, Dec. 5, for lighting the incandescent naphtha lamps of the city. Specifications for this work are on file at office of Engineering News, New York. (Advertised, Engineering News.)

ELKTON, MD.—JAMES H. KANE & SON, of Wilmington, Del., have contract for building a sub-power station for the Elkton Electric Light & Power Co. Cost, $6,000.

BALTIMORE, MD.—Two bids were received on Nov. 15 by County Commissioners for lighting roads and avenues near Gardenville and Hamilton. One bid was received from the Mt. Washington Electric Light & Power Co., at $25 a lamp, 32 c. p.; and the other, at $20 a lamp, 60 c. p., was received from the American St. Light Co. The latter bid was informal. Award was not made.

NORFOLK, VA.—It is reported that the Norfolk Ry. & Light Co. will make additional improvements to its plant to cost about $100,000. H. Root Palmer is Gen. Supt. laying 15 miles of 6 and 8-in. mains, and replacement of the present 3-in. pipes. Noted on Oct. 5.

SALISBURY, N. C.—The South Yadkin Development Co. will develop power on Yadkin River at Yadkin College. A canal, eleven miles long, 80 ft. wide and 15 ft. deep will be built. J. M. Bandy, Greensboro, N. C., is Engr. The promoters are Dock Hartley, of Yadkin College, N. C., and J. H. Swicegood, of Tyro Shops.

HARTSVILLE, S. C.—There are now available $75,000 for construction of water-works, sewers and an electric light plant. Charles C. Wilson, of Columbia, S. C., is Engr.

ABERDEEN, S. C.—City has voted to issue $35,000 of bonds for building a municipal lighting plant.

BUENA VISTA, GA.—Town will vote on Dec. 11 on the issuance of bonds for the construction of electric light plant and waterworks.

SPARTA, GA.—We are informed that bids are asked until 1 p. m., Dec. 7, for machinery and material and installing complete an electric light plant. The proposed plant embraces one 66 in. × 18 ft. high pressure boiler and stack; one 100-KW. A. C. generator unit either for belted connection to Corliss engine or direct connection to automatic engine; nine arcs and 40-50 C. P. series incandescents; 800 light transformers and meter capacity and pole line. R. W. Moore is Mayor. J. B. McCrary is Engr., at Senoia, Ga.

ROCKMART, GA.—City has voted to issue $6,000 of bonds for construction of an electric light plant. M. P. Lane is Mayor. This was noted on Nov. 9.

HATTIESBURG, MISS.—City has granted a franchise to T. J. Kearney, of Hattiesburg; T. J. O'Beirne, of Jackson, Miss., and H. A. Camp, of Lumberton, Miss., to construct and operate a gas plant. Buildings and laying one mile of mains will be completed within ten months' time.

MARKSVILLE, LA.—See under Water Supply-Irrigation.

ABBEVILLE, LA.—Wm. McIntosh, of Abbeville, will prepare plans and estimates for the construction of an electric light plant. Bids will be received until Dec. 4 for constructing water-works and electric light plant. George W. Summers is Secy. and J. R. Leguenec is Mayor.

KNOXVILLE, TENN.—The Oliver-Stewart Contracting Company has been chartered by W. J. Oliver, of Knoxville; A. B. Stewart, of Columbia, S. C., and Geo. F. Parkes, of Nashville, to construct a power plant on the Tennessee River, 30 miles from Chattanooga. Noted on Nov. 2.

TRENTON, TENN.—Arthur R. Low and associates, of Philadelphia, Pa., have been granted a 20-year gas plant franchise in Trenton.

MURRAY, KY.—Bids are asked until Nov. 25 for franchise for construction of light, heat and power plant. E. A. Hughes is Mayor.

ALLEGAN, MICH.—W. H. Patterson, Gen. Mgr. of the Grand Rapids & Kalamazoo Valley Traction Co., has renewed his franchise with the supervisors of Allegan County for the construction of a dam near Allegan. Construction must begin before Jan. 1, 1907. This power plant, if built, will develop 3,000 HP. and will be situated 1½ miles above Allegan and eight miles from the Pine Creek dam, owned by the Commonwealth Power Co. Est. cost is $250,000.

MILWAUKEE, WIS.—The Municipal Electric Light & Power Co., of Milwaukee, with a capital of $100,000, has been incorporated by Louis N. Biron, 1513 Ninth St.; John A. Wallis, 383 Albion St., and August C. Moeller, 1569 Eighth St. The company, through its attorneys, Kemper, Bloodgood & Kemper, presented to the Milwaukee common council franchise ordinance "to provide the means of acquiring a municipal lighting plant to be owned and operated by the city, without materially increasing the debt of the city or interfering with the progress of other municipal movements." The new company demands a franchise for a term of 15 years and offers the lights at $90 each, which is $1 more than is at present paid the Milwaukee Electric Railway & Light Co. for similar service. Of this $90 the company agrees that the city shall be allowed a rebate of $30 on each light, said $30 to be used at the end of the 15 years for the purchase of the plant, which is to cost not more than $750,000 nor less than $400,000. The company asks no exclusive franchise, but expects to engage in selling light and power to private corporations also.

MADISON, WIS.—Dr. C. P. Farnsworth, care South Madison Sanitarium, states that it is contemplated to erect a complete power plant next spring. No plans have as yet been prepared.

ST. PAUL, MINN.—The Union Mfg. Co. has asked for franchise for lighting the city with gas. E. C. Stringer is Atty. for company.

BRAYMER, MO.—Question of street lighting system is under consideration.

ST. JOSEPH, MO.—James E. Trogden, of Kansas City, Mo., who has secured a franchise for natural gas for this city has made a proposition to the council at Maryville to supply that town with gas.

RUSHVILLE, MO. — The AMERICAN ELECTRIC CO., of St. Joseph, Mo., has been awarded contract for an electric lighting plant. J. C. Allison is Mayor.

CARONDELET, MO.—The Laclede Gas Light Co. may construct a large gas plant at Carondelet, at a cost of $7,000,000.

ARDMORE, IND. T.—City has granted a franchise to E. J. Maire, Frank Maire, J. S. D. Nealy and L. S. Nealy, all of Lima, O., to construct and operate gas plant.

FLORENCE, COLO.—Clyde Dawson, of Canyon City, Colo., is interested in project to develop power on Beaver Creek.

WEST SEATTLE, WASH.—At recent election it was voted to issue $9,000 of bonds for building an electric light plant.

SANDY, ORE.—A. Minig, of Sandy, is interested in plan to build a series of power plants on Sandy and Clockamas Rivers. C. W. Miller, of Portland, Ore., and H. W. Hageman, of Stone City, are also reported to be interested.

GILROY, CAL.—Bids have been received for construction of a city electric plant, as follows: Herrin, Ruckert & Comb, $11,600; Imperial Gas Engine Co., $10,860; Henshaw-Buckley Co., $10,750; Tracey Eng. Co., $8,166; California Eng. Co., $10,740; Kouburn, Clark Co. had two different propositions, $12,600 and $11,000. See call for bids in issue of Nov. 16.

ANAHEIM, CAL.—We are advised that bids will be received in January, 1906, for building a steam power plant for city. Est. cost is $40,000. Clem A. Copeland, of Los Angeles, Cal., is Designing Engr. Advertisement for sale of bonds has been delayed by mistake in proceedings until January.

COLTON, CAL.—We are informed that contract for furnishing power to city has been awarded to the EDISON ELECTRIC CO. for three years. A. D. Spring is City Electrician.

VERNAL, UTAH.—Ernest H. Wilson, of Vernal, has filed an application for water right on Vintah reservation. Water will be diverted and carried through an old Indian canal nearly 12 miles long to a power plant which is to be erected at Lake Falls; 3,150 HP. will be diverted.

AMERICAN FORK, UTAH.—At a recent mass meeting the city council was authorized to assume its proportion of the proposed increase in capital stock of the Utah County Light & Power Co., of this place, in which the city is now heavy owner. The present capitalization of the company is $50,000. The controlling interest is held by the cities of Lehi, American Fork and Pleasant Grove. The company is desirous of constructing another power plant about 2½ miles above its present site, at the mouth of American Fork canyon. Capital will be increased to $200,000. Peter Anderson, at American Fork, is Ch. Engr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—County Commissioners expect to have complete plans for new Kernwood bridge by the end of this month, and will then call for bids. The bridge will be of iron, with a revolving draw, and will cost about $100,000. Wallace A. Bates is Chn.

BOSTON, MASS.—LAWLER BROS., 16 City Sq., Charlestown, was awarded contract for constructing draw pier of Atlantic Ave. bridge, for $6,035. Bids were opened Nov. 9 by Wm. Jackson, Cy. Engr.

HARRISBURG, PA.—M. B. Cowden, Cy. Engr., writes us that no steps have yet been taken toward preparing plans for Mulberry St. overhead bridge.

ATLANTIC CITY, N. J.—Bids are asked by Board Freeholders, until 11.30 a. m., Dec. 6, for plans, specifications and cost of installing gasoline engines, properly housed, and all other necessary appliances for operating the draw bridges on the County Boulevard, between Atlantic City and Pleasantville. E. D. Rightmire, County Engr.; Frank Enderlin, Chn. Bridge Com., Cologne, N. J. (Advertised, Engineering News.)

WEST FORK, W. VA.—The West Fork Bridge Co. has been organized by T. A. Brown, of Elizabeth, W. Va., and others to construct a bridge across West Fork River, connecting West Fork and Creston.

ATLANTA, GA.—The Atlanta & Carolina Ry. Co. contemplate the erection of two bridges at a cost of $20,000. M. T. Edgerton, Secy., Atlanta.

INDIANOLA, MISS.—Town Council has let a contract for the erection of a steel bridge to the BELLEFONTAINE (O) BRIDGE & IRON CO., at $6,600. The bridge is to be 25 ft. wide with consrete floor.

GULFPORT, MISS.—Bids will be received by Board of Supervisors until Dec. 4 for constructing a bridge over Red Creek.

NATCHITOCHES, LA.—We are advised that contract for building steel bridge over Cane River at Bermuda has been let to VIRGINIA BRIDGE & IRON CO., for $4,995. Bids were opened Oct. 3 by Natchitoches Police Jury.

LEXINGTON, KY.—The city has voted affirmatively the $27,000 bond issue for construction of a viaduct over Ayers Alley. P. P. O'Neill is Cy. Engr.

OWENSBORO, KY.—Surveys will soon be started for the construction of proposed bridge over Ohio River. E. B. Shifley is Cy. Engr.

CINCINNATI, O.—We are advised that the contract for a concrete-steel railway bridge to be erected across the Big Soulle Fork of Cumberland River in Kentucky near the Tennessee line for the Kentucy & Tennessee Ry. Co. has been let to the COLLIER BRIDGE CO., 82 Baldwin Blk., Indianapolis, Ind. It contains 5,000 cu. yds. of concrete reinforced with twisted steel. Cost, $50,000. Designed by J. T. Richards and Ward Baldwin, Engrs., Cincinnati.

NILES, O.—We are informed that this city voted not to erect a viaduct across Mosquito Creek. Previously noted.

TIFFIN, O.—R. R. Bour, County Audr., informs us that no plans have yet been prepared nor date fixed for receiving bids for constructing bridge over Sandusky River.

INDIANAPOLIS, IND.—The County Commissioners awarded the contract for construction of new bridge over Fall Creek at 13th St. to WM. FIFE & SON, of Indianapolis, for $74,800.

INDIANAPOLIS, IND.—We are informed that a contract for bridge over canal at Broad Ripple has been let to VOLPP & FRITZ, of Indianapolis, for $5,444. A contract was awarded to the same company for a retaining wall on the Michigan Road for $3,892. Emmett S. Huggins, County Clk.

WINAMAC, IND.—Bids are asked by County Commissioners until Nov. 27 for constructing bridge, 100 ft. long, over Agnew ditch. Ellis S. Rees, County Audr.

CHICAGO, ILL.—The Engineering Committee of Drainage Board recommended the award of contract for the erection of new bascule bridge at Dearborn, as follows: Substructure, GREAT LAKES DREDGING & DOCKING CO., $142,253; superstructure, JACKSON & CORBETT BRIDGE & IRON CO., $145,335.

URBANA, ILL.—We are informed that Burnham & Ives, of Bloomington, Ill., were the lowest bidders, at $3,573, for constructing superstructure of 140 × 16 ft. highway bridge on concrete. Bids were opened by County Commissioners Nov. 15. Ira O. Baker, Engr., Champaign, Ill.

MILWAUKEE, WIS.—Sealed bids will be received by Board Public Works until 10.30 a. m., Dec. 15, for constructing section No. 1 of the superstructure of Washington Ave. viaduct. Chas. J. Poetsch, Chn.

MUSCATINE, IA.—The Commissioners of Drury and Eliza Townships, Jos. Nussbaum, Pres., R. F. D. No. 4, Muscatine, will advertise for bids the first week in January for constructing three iron bridges. Wallace Treichler is Engr., Rock Island, Ill.

OSKALOOSA, IA.—The Board of Supervisors has decided to build another new bridge across North Skunk River.

WICHITA, KAN.—Bids are asked by County Commissioners until Dec. 2 for construction of four steel bridges and one pile bridge.

SIOUX FALLS, S. DAK.—Bids are asked by C. E. Hill, County Audr., until 12 m., Dec. 8, for building all bridges that may be ordered by County Commissioners during the year 1906.

KANSAS CITY, MO.—R. C. Barnett, Consult. Engr., 510 Kansas City Life Bldg., writes us that plans for reinforced concrete bridge on Gilham Road are still under consideration by Board Park Commissioners. Est. cost, $40,000.

AUGUSTA, ARK.—Bids on the steel viaduct to be constructed over tracks of the Little Rock and Fort Smith Railway where they cross Main St. were opened Nov. 10, and the Board Public Affairs awarded the contract to the VIRGINIA BRIDGE CO., of Roanoke, Va., the bid being $36,650, the lowest of four submitted.

SAN MARCO, TEX.—It is reported that the San Marco Valley Interurban Ry. Co. is arranging for the construction of a bridge across the Blanco River.

WATONGA, OKLA.—We are informed that the following bids were received by County Commissioners, John M. Tyler, Clk., for constructing three bridges: J. C. Boyles, Okeene, $1,845; Fair, Wilkins Bridge Co., Hobart, $3,253; C. L. Horton, Austin, Tex., $2,500; Midland Bridge Co., Kansas City, Mo., $2,335; John W. Talle, Omaha, Neb., $2,399; Canton (O.) Bridge Co., $1,840.

DURANGO, COLO.—W. H. Wigglesworth, Cy. Engr., writes us that the city will build a stone bridge, 40 ft. wide with three 40-ft. spans, on Main Ave. JOHN J. McKINNON is the contractor. Plans were made by Silas H. Smith.

WALLA WALLA, WASH.—It is stated that the City Clerk will soon call for bids for construction of a new steel bridge across Mill Creek at 4th St.

LOS ANGELES, CAL.—The Board of Supervisors are considering the bids for bridges to be built across the Sespe and Ventura Rivers. The Board advertised for bids, and in response thereto nine bidders filed proposals for the Ventura bridge and seven bidders on the Sespe bridge. The bids ranged from $18,500 to $25,500 on the Ventura bridge and from $28,400 to $35,600 on the Sespe bridge. The bids have been taken under advisement, the contract to be awarded later.

FREDERICTON, N. B.—It is stated that the Hon. C. H. Labillois will receive tenders until Nov. 27 for repairing the Baltimore bridge in Queens County.

WINNIPEG, MAN.—H. N. Ruttan, Cy. Engr., writes us that the matter of constructing a bridge over Red River is to be submitted to voters at the municipal elections in December.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

PORTSMOUTH, N. H.—The buildings of the U. S. Life Saving Station at Jerry's Point, Great Island in Portsmouth Harbor have been turned over to the War Department. The Life Saving Service is negotiating for a reservation on Wood Island where a new station is contemplated. G. J. Kimball, Gen. Supt. L. S. S., Washington, D. C., and Superintendent of Construction L. S. S., 379 Washington St., New York City, have charge of all construction work.

QUINCY, MASS.—Plans for high school building by Arch. Aaron H. Gould, 43 Milk St., Boston, have been accepted by School Board and City Council. C. H. Hallowell, Chn. School Com. Cost, $113,000.

CHARLESTOWN, MASS.—HENRY McGAHEY, Cambridge, Mass., has been awarded the contract for constructing the Charlestown High School, Monument Sq. Contract price $239,000. Stickney & Austin, Archs., 50 Broomfield St., Boston. The contract includes heating and ventilating, electrical and plumbing work.

SPRINGFIELD, MASS. The FOSBURG CO., 8 Beacon St., Boston, have been awarded the contract for construction of the Hall of Records Bldg., at Springfield, for $118,000. Bids were received Oct. 24, but several of the lowest bidders were asked to re-figure.

WALLINGFORD, CONN.—Bids are asked by Building Committee until 8 p. m., Dec. 4, for the erection of a brick and stone school building. Allen & Williams, Archs., New Haven. Geo. T. Jones, Chn.

BROOKLYN, N. Y.—T. Bennett, Arch., Third Ave. and 52d St., has plans for three flat buildings at Beverly Road and East Eighth St., for the Abels, Gold Realty Co., 5105 Fifth Ave. Cost, $75,000.

W. J. Kay, 4605 Fifth Ave., has plans for 20 two-story brick and stone two-family residences, 20 × 48 ft., to be erected on 45th St. and Sixth Ave. Cost, $64,000.

NEW YORK, N. Y.—Bids are asked by Armory Board, Stewart Bldg., until 2 p. m., Nov. 28, for furnishing all labor and materials for making and completing the repairs

and alterations to the several armories of the organizations of the N. G., N. Y., in Boroughs of Manhattan and Brooklyn.

NEW YORK, N. Y.—Sealed bids will be received by Jas. F. Ahearn, Boro. Pres., until 3 p. m., Dec. 4, for completion of electric lighting system in Criminal Courts Bldg., at Franklin and Centre Sts.

BINGHAMTON, N. Y.—The Board of Education does not intend to build a high school building as was stated in last week's issue.

NEW YORK, N. Y.—ISAAC A. HOPPER & SON, 1133 Broadway, have the general contract for home for Colored Orphan Asylum and Home at Riverdale, Borough of Bronx. Robertson & Potter, Archs., 160 Fifth Ave. Cost, $400,000.

Wm. A. Boring, Arch., 32 Broadway, has plans ready for estimates on a warehouse at Ninth Ave. and 15th St., for Mary A. Tuttle, 25 West 26th St. Brick, 6 stories, 52 × 100 ft. Cost, $75,000.

GEO. A. FULLER & CO., Fuller Bldg., has the general contract for the four-story garage, 116 × 101 ft., which the Island Realty Co., 111 Broadway, will erect at 1869 Broadway, from plans by Arch. J. H. Morgan, Fuller Bldg. Cost, $150,000.

NEW YORK, N. Y.—Bernstein & Bernstein, Archs., 24 East 23d St., have plans for six flat buildings on 100th St., near First Ave., for Berliner & Greenberg, 335 East Sixth St. Cost, $210,000.

Same architects have plans for three flat buildings to be erected on 94th St., near First Ave., for Nerasky & Bellowitz, 53 East 110th St. Brick and stone, 6 stories, 50 × 88 ft. Cost, $150,000.

TRENTON, N. J.—It is stated that more than $1,000,000 will be spent by the John A. Roebling's Sons Co. in building a model private city for the company's employees.

PITTSBURG, PA.—Arch. George H. Schwan, 326 Fourth Ave., Pittsburg, has awarded to W. E. ALBERTS, 6019 Kirkwood St., the contract for constructing an apartment building on Millvale and Ben Venue Aves., for J. B. Jones. Brick and stone, three stories, 82 × 122 ft., and cost $50,000.

PHILADELPHIA, PA.—The following bids were received Nov. 8 by Bureau of Yards and Docks, U. S. N., Washington, D. C., for heating building No. 18, machine, boiler and blacksmith shops, etc., Navy Yard, League Island, Pa.: B. F. Sturtevant Co., 135 North Third St., Philadelphia, (5) $13,320, $11,405 if engines are substituted for motors; General Fire Extinguisher Co., Westminster & Dorrance Sts., Providence, R. I., (1) $9,143, (2) $9,845; L. H. Prentice Co., 114 Liberty St., New York City, (1) $13,156; Philadelphia Steam Heating Co., 1513 Filbert St., Philadelphia, (4) $16,968; American Paving & Const. Co., 211 South Ninth St., Philadelphia, (1) $8,620, (3) $9,800, (4) $9,700; Harry A. Miller, 617 Shipley St., Wilmington, Del., (1) $8,968; Specialty Const. Co., 312 Bond Bldg., Washington, D. C., (1) $9,935; Camden Heating Co., 105 North Front St., Camden, N. J., (3) $4,611.

WILKESBARRE, PA.—Capt. W. G. Sahva, of Wilkesbarre, head of the educational department of the Polish Alliance is preparing plans for the erection of a school for Poles and Lithuanians in this city, which will cost $200,000.

PITTSBURG, PA.—S. S. Beman, Arch., 203 Michigan Ave., Chicago, Ill., is taking figures for an office building to be erected at Grant and 4th Fourth Sts., Pittsburg, for Mrs. Rebecca Berger, Pittsburg. Cost, $400,000.

BALTIMORE, MD.—Parker & Thomas, Archs., 612 North Calvert St., have plans for one-story banking building, 70 × 50 ft., to be built at Charles and Saratoga Sts., for the Metropolitan Savings Bank. Cost, $125,000.

BALTIMORE, MD.—J. J. WALSH & BRO., Mt. Royal Ave., have the contract to erect a two-story warehouse, 75 × 125 ft., on Appleton St., for John Hubner and E. B. Hunting. Cost, $60,000.

BALTIMORE, MD.—Henry E. Cook, 537 East Monument St., will erect 23 three-story dwellings on St. Paul St., near 29th St., to cost about $100,000.

Henry E. Cook has commissioned Jacob F. Gerwig, Arch., Hoffman Bldg., 11 East Lexington St., to prepare plans and specifications for 56 dwellings to be erected on North Calvert St. Cost, $150,000.

WINSTON, N. C.—The bid of the GENERAL SUPPLY AND CONSTRUCTION CO., 2 State St., New York City, $47,000 in amount, has been accepted for the construction, plumbing, heating, wiring and conduits, for U. S. public building at Winston.

SANFORD, N. C.—Bids will be received by H. E. Bonitz, Arch., Wilmington, N. C., until Dec. 20 for construction of three-story school building, 65 × 100 ft., for the School Board.

CONWAY, S. C.—H. E. Bonitz, Arch., Wilmington, N. C., has prepared plans and will take figures until Dec. 15 for a two-story bank building, 60 × 100 ft., for the Bank of Conway.

AUGUSTA, GA.—A $300,000 hotel will be erected on Monte Sano Heights. John B. MacAfee can inform.

KIRKWOOD, GA.—The city has voted to issue $60,000 in bonds for the erection of a school building. Secretary of School Board can give information.

GAINESVILLE, FLA.—Contractors wishing to bid on the dormitory buildings to be erected at Gainesville for the University of Florida will promptly send in their application for drawings to Edwards & Walter, Archs., Columbia, S. C. Said application to be accompanied with a certified check for $25 in favor of the architects. A certified check of $1,000 is to accompany each bid, and bids are to be sealed and delivered to N. P. Bryan, Chn., at Gainesville, Dec. 11, at 12 o'clock m. Previously noted.

MOBILE, ALA.—Jake Wells, of the Wells Theatrical Syndicate, Richmond, Va., will erect a new opera house.

NASHVILLE, TENN. — Mrs. Elizabeth Eakin will erect a five-story brick business house here to be occupied by the Kastner-Knott Dry Goods Co. Cost, $100,000.

MEMPHIS, TENN.—The Mississippi Bond & Investment Co. will erect 100 residences at a cost of $200,000. Chighizola, Hanker & Cairns, Archs., Scimitar Bldg., Memphis.

AKRON, O.—The citizens voted on Nov. 7 to issue bonds for the erection of a $100,000 high school annex. We are informed that no steps have yet been taken toward the construction of building. J. F. Bornhart, Clk. Bd. Education.

COLUMBUS, IND.—W. G. Irwin, Gen. Mgr. Indianapolis & Columbus Traction Co., will soon ask for bids for the construction of a large freight station.

INDIANAPOLIS, IND.—Bids will soon be asked for the construction of a new 12-room school house at Pennsylvania and 33d Sts.

Bids are asked until Nov. 27 for construction of an eight-story building at Ohio and Meridian Sts., for Board of Trade. Jacob Smith, Secy.

COLFAX, IND.—C. W. Colb and others will soon ask for bids to build a hotel in this city on site of Transient Hotel recently destroyed by fire.

BLOOMINGTON, IND.—Bids are asked by John W. Cravens, Secy. Bd. Trus., until noon, Jan. 4, for construction and equipment of a library building to be erected on the campus of Indiana University. Patton & Miller, Archs., 140 Dearborn St., Chicago, Ill. (Advertised, Engineering News.)

LAFAYETTE, IND.—J. F. Alexander & Son, Archs., Lafayette, inform us that the proposed Lafayette Y. M. C. A. building will not be in the market this year, but probably next.

JACKSON, MICH.—Claire Allen, Arch., 24 Dwight Blk., Jackson, informs us that the School Board expects to start work on $100,000 school next spring.

CHICAGO, ILL.—P. J. Weber, Arch., 277 Dearborn St., is preparing plans for an addition to Fisher Bldg., for L. J. Fisher, on premises. Steel and terra cotta, 18 stories, 50 × 70 ft. Cost, $400,000.

E. C. Shankland, Arch., 217 La Salle St., has prepared plans for warehouse, to be erected at 35th and Morgan Sts., for the Dearborn Drug & Chemical Co. Steel, mill construction, 3 stories, 100 × 150 ft. Cost, $50,000.

The Chicago Cold Storage Co., 1532 Indiana Ave., contemplates the erection of a five-story mercantile building. Cost, $100,000.

The Chicago Land, Loan & Construction Co., 108 La Salle St., is taking figures on department store building, to be erected at Logan Square. Brick and stone, 5 stories, 110 × 200 ft. Cost, $170,000.

Huehl & Schmid, Archs., 163 Randolph St., have completed plans for a seven-story warehouse, to be erected at Ohio and Kingsbury Sts., for the Bradner Smith Paper Co. Bids are being received by architects. Cost, $160,000.

JOLIET, ILL.—W. A. McRoberts, Health Comr., writes us that bids will be advertised for in the near future for a $700,000 smallpox hospital.

MONROE, WIS.—J. L. Sherron, Clk. Bd. Education, has plans for the erection of new school house to cost $40,000.

CHIPPEWA FALLS, WIS.—The Board of Education is planning an addition to High School to cost $40,000.

DUBUQUE, IA.—Buechener & Orth, Archs., 501 Manhattan Bldg., St. Paul, Minn., are preparing plans for three public school buildings to be built here during the winter and spring.

MINNEAPOLIS, MINN.—J. E. Andrus, of Minneapolis, proposes to erect a $1,000,000 hotel at Sixth St. and Hennepin Ave. Nothing definite about structure has yet been settled nor has an architect been selected.

Contract for erection of hall building for Holy Cross Polish Catholic Church has been let to F. E. GRAVES. Brick and stone, 2 stories, 66 × 140 ft. Cost, $50,000.

The Minneapolis Club proposes to erect a four-story club house. Robt. W. Gibson, Arch., 76 William St., New York City.

ST. PAUL, MINN.—The Norwegian Lutheran Synod has voted to erect a hospital to cost $100,000. The structure will probably be built at Tenth and John Sts. Dr. E. Boeckman is Pres.

ST. PAUL, MINN.—The state fair managers have awarded the contract to PIKE & COOK, 416 South Fifth St., Minneapolis, for the erection of new live stock pavilion at the state fair grounds here, their bid being $96,000. Work will commence this fall.

MINNEAPOLIS, MINN.—A. & F. W. Knoblauch, of Minneapolis, have purchased property at Eighth St. and Nicollet Ave., and will erect a five-story office and store building costing $40,000.

The Crane Co., of Chicago, Ill., will erect a warehouse, 60 × 165 ft., of concrete, fireproof construction, for the Plumbers & Steamfitters Supply Co., of Minneapolis. Cost, $200,000.

LAWRENCE, KAN.—State Arch. J. F. Stanton, State House, Topeka, is preparing plans for a three-story auditorium and gymnasium, 84 × 189 ft., at the State University, Lawrence, for the Board of Regents, W. K. Folk, Secy., Lawrence. Cost, $100,000. Bids will be received early in the spring.

FORT MEADE, S. DAK.—Bids are asked until 2 p. m., Dec. 15, for construction and plumbing of one brick stable. Major George K. Hunter, Q. M. (Advertised, Engineering News.)

JOPLIN, MO.—The Germania Society will erect a hotel at a cost of $50,000. Chris. E. Guengerich is Arch.

JACKSON, MO.—The county will erect a $75,000 court-house and jail, for which bonds have been issued. John G. Putz, Treas.

WYNNE, ARK.—J. C. Harrell, W. H. Barnes, O. N. Killough and W. W. Shaver will erect a three-story brick business house, at a cost of $100,000.

CHANNING, TEX.—Sealed bids will be received by the Commissioners' Court until Dec. 2 for furnishing all labor and material to build a two-story brick and stone trimmed court house for this county. O. G. Roquemore, Arch., Amarillo, Tex. J. C. Thompson, County Clk.

PARIS, TEX.—County Commissioners will receive bids until Dec. 5 for the construction of a brick hospital building on county farm near Paris. Barry & Smith, Archs., Paris; John W. Love, County Judge.

HEMPHILL, TEX.—Sabine County has voted a $30,000 bond issue for the erection of court-house.

SOUTH McALESTER, IND. T.—Sealed proposals will be received by Wm. Busby, Chn. Bldg. Com., until Jan. 15 to complete building for the Indian Consistory, above foundation. Chas. L. Thompson, Arch., Little Rock, Ark.

COLORADO SPRINGS, COLO.—The following bids were opened Nov. 14 at office of Jas. Knox Taylor, Supr. Arch., Washington, D. C., for construction of U. S. post-office at Colorado Springs: Ambrose B. Stannard, New York City, $118,900; Henry A. Paine, Albert Lea, Minn., $112,000; Northwestern Const. Co., Wahpeton, N. D., $123,779; Wm. H. Maxwell, Pierre, S. D., $105,972; J. H. Wese, South Omaha, Neb., $106,470; Piper-Brown Co., Pueblo, Colo., $119,997.51; Morse Const. Co., North Topeka, Kan., $118,000; Thos. H. O'Neil, Denver, Colo., $128,900; Wm. Weber, Huntington, W. Va., $108,000; Gillis Bros. Lumber & Building Co., Colorado Springs, $118,889; G. F. Atkinson, Colorado Springs, $119,950; F. L. Stevenson Contract Co., Dallas, Tex., $111,900; John Bordon, Fort Worth, Tex., $119,250; Deiter & Wenzel, Jopin, Mo., $118,862.

FORT WINGATE, N. MEX.—All bids for construction of barracks at Ft. Wingate have been rejected as being excessive. Work will be deferred until next spring.

SEATTLE, WASH.—At a meeting of Armory Commission held Nov. 7, it was decided to issue a call for bids at once for construction of the $110,000 armory for which plans were selected a month ago. Bids will be received and contract let by the end of this month.

FRESNO, CAL.—The city has voted $60,000 in bonds for new city hall.

TORONTO, ONT.—Plans for public library building will be received by Secretary of Public Library Board until Jan. 31.

TORONTO, ONT.—The Trustees of the Toronto General Hospital have decided to build a large addition to present building. Over $950,000 has been subscribed with which to start building.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

FORT WILLIAMS, ME.—Following bids were opened Nov. 11 by Capt. A. W. Yates, C. Q. M., Portland, Me., for constructing extension of water and sewer lines at Fort Williams: A. L. Dow, Portland, $3,500; Jas. H. Ferguson, Dorchester, Mass., $3,820; F. H. Marshall, South Portland, $2,578; Worster & Wilson, Portland, $3,525.

SWANTON, VT.—We are advised that nothing definite has been done as yet toward securing additional water supply for this town. At last village meeting trustees were instructed to get prices on pond and land rights. Majority of voters favor securing supply from pond eight miles distant. C. E. Allen, 1st Village Trustee, is official in charge. Leno A. Lapelle is Town Clk.

WEST SPRINGFIELD, MASS.—We are advised that proposed new town water-works (supply from Bear Hole Brook, three miles distant) will require two pumps of 1,000,000 gallons capacity, each; two 60-HP. gas engines, and a filtration plant. Est. cost is $40,000. C. M. Woodward, Secy. Water Comrs., is official in charge.

SPENCER, MASS. — Surveys have been completed of territory, east of Shaw Pond, which town proposes to seize and build a dam and basin for storage purposes as auxiliary to Shaw Pond. N. E. Craig is Engr. W. Dept.

SOUTH MANCHESTER, CONN.—It is stated that Cheney Bros. will have another reservoir built at Globe Hollow next spring.

INGERSOLL, N. Y.—Ingersoll Water-Works Co. is said to be planning to improve its system. E. B. Calkins, Watertown, N. Y., is Engr.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, until 2 p. m., Nov. 29, for furnishing, delivering and laying water mains in several streets in Borough of Manhattan and The Bronx. Cost of work is between $30,000 and $40,000.

DUNKIRK, N. Y.—It is probable that city will extend its 20-in. water main next year. Water-Works Superintendent Doughty has also suggested that matter of a new engine for the works be taken up.

ROCHESTER, N. Y.—Residents of the town of Irondequoit have asked the Rochester & Lake Ontario Water Co., G. K. M. Clarke, Mgr., to extend its mains to that place. Applications for extensions of the company's mains to Spencerport and Brockport have also been made.

CONSTABLEVILLE, N. Y.—Contract for installing water-works for this town has been let to JOHN J. SIEGRIST, 2026 Bleecker St., Utica, N. Y., for about $17,000.

OCEAN CITY, N. J.—City is considering municipal ownership of water-works and special Council Committee is to secure a price on local plant.

RAHWAY, N. J.—It is possible that some action may be taken by this city toward installing a filtration plant. James B. Furber is Mayor.

PHILADELPHIA, PA.—Ordinance has been before council to appropriate $45,000 for laying a 16-in. water main in Verree Road.

HAYS, PA.—South Pittsburg Water Co. has asked 20-year franchise through the streets of this borough.

CHAMBERSBURG, PA.—Local papers are advocating making a bond [illegible] for purchase of a new pump.

NORFOLK, VA. — Com[illegible], of which Frank Hitch, Chn. Council [illegible] Com., is a member, may make an in[illegible] into the desirability of establishing wa[illegible].

PORTSMOUTH, VA.—Ac[illegible] to recent agreement between city and [illegible] water company, the latter will install a [illegible]tion plant, work on which is to comme[illegible] Jan. 1.

GEORGETOWN, S. C.—Bla[illegible] River Water Co., capitalized at $150,000, [illegible] been incorporated to supply this place w[illegible] water. E. L. Lloyd, R. M. Barnes and [illegible] D. Morgan are among the incorporators.

ST. MATHEWS, S. C.—City w[illegible] vote on issuing $20,000 of bonds for w[illegible] works and electric light plant.

COLUMBUS, GA.—Referrin[illegible] municipal water-works for this city, w[illegible] advised that the matter is now in th[illegible] hands of a commission, which is consid[illegible] several sources of supply, but as y[illegible] come to no definite decision. For som[illegible]ths tests for artesian water have been [illegible] but this has proven a failure. The [illegible]ion was to meet on the 22d, at which [illegible] several propositions were to be submi[illegible] to them. W. C. Campbell is Supt. Pub. W[illegible].

TOCCOA, GA.—We are inform[illegible] that matter of new municipal works for [illegible] place is being agitated. Gravity system [illegible] proposed. Est. cost is $30,000. Geo. T. Br[illegible] is Member Com.

MILLEDGEVILLE, GA.—We [illegible] advised that contract for constructing [illegible]-works for Georgia State Sanitarium w[illegible] awarded on Nov. 16 to WALTON & WAG[illegible], Rome, Ga., for $65,000. Supply is to [illegible] obtained from Oconee River, 3¾ miles distant. T. H. De Saussere is Engr.

WATKINSVILLE, GA.—Water works may be installed here by E. B. Thompson and others.

ARCADIA, FLA.—City has disposed of a $30,000 bond issue, part of which will be used for water-works.

APALACHICOLA, FLA.—Bids are being asked by this city, until Dec. 5, for purchase of $40,000 of water-works bonds.

PERRY, FLA.—The time for receiving bids for the construction of water-works for this place has been extended from Nov. 28 to Dec. 5, as is stated in our advertising columns.

BRUNDIDGE, ALA.—City is reported to be considering erection of water-works.

ABBEVILLE, LA.—Bids are asked by Geo. W. Summers, Town Secy., until 3 p. m., Dec. 18 for material and work for construction of water-works and electric light plant and some sewers. Material and work includes the following: Brick building, pumping engines, boilers, steel tower and tank, cast iron pipe, hydrants and valves, automatic engines, direct current generators, electric wire and pole line material, machinery erection, pipe laying, drilling wells, sewer material and construction. W. Mackintosh, Engr. (Avertised, Engineering News.)

MARKSVILLE, LA.—Bids are asked by Mayor C. Ashton Smith and Board of Aldermen, until 4 p. m., Dec. 4, (readvertisement) for the construction of a system of water-works and electric lights. Bids are also asked until 4 p. m., Dec. 5 (readvertisement) for sale of $15,800 of gold bonds, the official advertisement both of the above appearing in our advertising columns. Ira W. Sylvester, Engr., Alexandria, La.

MINDEN, LA.—Mayor Robert Roberts has suggested that a meter system be adopted.

NASHVILLE, TENN.—We are informed that it will probably be a year at least before anything definite is done regarding proposed water-works plant to supply West Nashville. Jno. T. Ahearn is Supt. W. W.

According to press reports Mr. Ahearn has recommended that Board Public Works take some action toward purchasing a 20,000,000 gallon triple expansion pumping engine to meet the demands of the rapidly growing city.

BRISTOL, TENN.—We are advised that city proposes to buy existing water-works of Bristol-Goodson Water Co. A vote for this purpose will be taken about the end of the month. If the city decides to purchase the works it will be extended to Preston Springs, eight miles distant.

MARION, KY.—We are advised that question of issuing bonds for water-works was voted down at recent election. J. W. Blue, Jr., is Mayor.

CINCINNATI, O.—Following bids were opened Nov. 10 by Water-Works Commission for laying 48-in. cast iron pipes in Eastern Ave., Keeling-Ridge Co., $42,705; Frank Burns, $45,170; Thos. Maloney, $45,415; Guy M. Gest, $65,385. For manufacturing and furnishing and delivering steel pipe for the filtration plant and settling reservoirs, the following were bidders: Ritter-Conley Co., $42,132; Carroll-Porter Boiler & Tank Co., $43,700; T. A. Gillespie Co., $46,148.

CLEVELAND, O.—Bids are asked by Board Public Service, A. R. Callow, Secy., until noon, Nov. 25, for furnishing and delivering all rotary piston or oscillating piston water meters that may be required until Jan. 1, 1906. Estimated quantity that will be required is: Nine 3-in., nine 4-in. and two 6-in. water meters.

MALTA, O.—We are advised that nothing is being done at present regarding municipal water-works for this place. Matter is waiting settlement of question as to whether City of McConnellsville will furnish supply. Vote has been taken favorable to issuing bonds for the works, est. cost of which is $7,000. Engineer has not been selected. W. S. Connor is Village Clk.

WOOSTER, O.—Committee, of which James Mullin is a member, is to consider improving water-works of this place.

FORT WAYNE, IND.—Plans and specifications for new low pressure reservoir at pumping station No. 1 are reported to have been completed, and Water-Works Trustees will soon take bids for this work.

JASPER, IND.—Town has purchased local water and electric light plants.

ATHENS, MICH.—We are advised that at an election held Nov. 14, matter of issuing $8,000 of bonds of water-works was voted down. P. S. Fox is Village Pres.

ALTON, ILL.—Ordinance is to come before Councils to enable city to build water-works. H. B. Sparks is Chn. W.-W. Com.

EAST MOLINE, ILL.—Following bids were received Nov. 13 by this village. Kimball Engineering Co., Engrs., Davenport, Ia., for constructing water-works: G. W. Meredith, Cedar Rapids, Ia., $37,000; W. H. Dearborn, Stone City, Ia., $38,900; Dwyer Heating & Plumbing Co., St. Paul, $36,465; Moline Heating & Construction Co., Moline, Ill., $9,805; Des Moines Bridge & Iron Works, Des Moines, Ia., $29,100. Work includes 100,000 gallon steel standpipe, brick pump house, concrete reservoir, two pumping units consisting of two 14 HP. engines, direct connected to the pumps, 17,980 lin. ft. 6-in., 8-in. and 10-in. cast iron mains, 30 double hydrants and about 20 gate valves. The contract is reported to have been let to DES MOINES BRIDGE & CAST IRON WORKS.

WAUKESHA, WIS.—John Erickson, Chicago, Ill., has been selected as the third member of the appraisal board which will place a value on the local water-works plant. The other appraisers are John B. Heim, Supt. of the Madison water-works, selected by the city, and Charles W. Knight of Rome, N. Y., selected by the company.

MILWAUKEE, WIS.—Council Water-Works Committee has recommended construction of a 6 x 7 ft. tunnel under the Milwaukee River to be used for water mains. Est. cost is $20,000. The construction of another tunnel to secure more adequate connections with the south side is also under consideration.

Charles J. Poetsch, Cy. Engr., will shortly ask Council to purchase a new 30,000,000 gallon triple expansion pumping engine for the North Point pumping station.

BURT, IA.—Town is to install water-works according to reports.

FORT MADISON, IA.—Council has passed ordinance granting a ten-year franchise to Fort Madison Water Co.

BRAINERD, MINN.—Local water-works company proposes, according to reports, to improve its plant. Town has been considering erection of municipal works. A. W. Hunkins, Engr., St. Croix Falls, Wis., has been gathering data for the company's improvements.

CLOQUET, MINN.—Town has voted against issue of $65,000 of bonds for installing water-works. Sylvester Wilson is Mayor.

INDEPENDENCE, KAN.—Following bids were received Nov. 15, by T. N. Sickels, Cy. Clk., for extension and new construction of water-works: Dwyer Plumbing & Heating Co., St. Paul, Minn., $40,980; Hanley & Ritchie, Iola, Kan., $42,384; J. J. Dunnigan, Shenandoah, Ia., $42,475; Des Moines Bridge & Iron Co., Des Moines, Ia., $40,680; F. C. Youman's Const. Co., Kansas City, Mo., $46,-900; N. S. SHERMAN MACHINERY CO., Oklahoma City, Okla., $37,778; Industrial Iron Works, Clinton, Mo., $42,980; McQuatten Plumbing & Machine Co., Hillsboro, Tex., $49,480. For constructing filtration plant bids were received as follows: Wm. N. Deutsch, New York, N. Y., $5,857; Roberts Mfg. Co., Philadelphia, Pa., $3,975; C. L. Dean, Minneapolis, Minn., $4,940; Wm. B. Scaife & Sons Co., Pittsburg, Pa., $4,500; C. A. Burton Mach. Co., Kansas City, Mo., $5,-500; Jackson Filter Co., St. Louis, Mo., $4,-250 GREER FILTER CO., Philadelphia, Pa., $3,486.

MANDAN, N. DAK.—Council is considering granting a water-works franchise to P. H. Michaels, Mansfield, O.

KANSAS CITY, MO.—Board Public Works has awarded contract for 25,000,000 gallon centrifugal pumping engine for the Quindaro Station to H. N. STRAIT MFG. CO., Kansas City, Mo., for $14,400. Bids were opened Nov. 8.

BILLINGS, MONT.—Plans and specifications for the construction of main canal, laterals and ditches for the distributing system, Huntley Project, Montana, may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked until 2 p. m., Dec. 15, by Engineer, U. S. Reclamation Service, as is stated in our advertising columns.

DALLAS, TEX.—Oak Cliff Water-Works Co. will sell its plant to city for $30,000, according to reports. T. L. Lawhon is Chn. W. Com.

BALLINGER, TEX.—Bids are reported asked by this city until Dec. 1 for the construction of water-works, for which $12,000 is available.

GRAND SALINE, TEX.—A $14,500 water-works bond issue of this town has been approved by the State Attorney-General.

MIDLOTHIAN, TEX.—Midlothian Ice, Light & Water Co., capitalized at $20,000, has been incorporated. L. O. Moore, W. W. Major and J. A. Posey are incorporators.

ALTUS, OKLA.—City votes Dec. 29 on issuing $30,000 of bonds for erecting water-works.

TEMPLE, OKLA.—Temple Water Co., capitalized at $20,000, has been chartered. J. C. Canady, T. J. Hunt, and J. A. Fudge are interested.

WYNNEWOOD, IND. T.—City will vote Nov. 28 on issuing $28,000 of bonds for building water-works. See Oct. 19 issue.

LA JUNTA, COLO.—City is considering proposition to vote bonds for building new pumping plant to pump supply from the river.

GALLUP, N. MEX.—Special election may be held to vote on $15,000 bond issue for installing new water-works for this town.

HOLYOKE, COLO.—Town is to purchase local water-works for $6,000.

PRESCOTT, WASH.—Town has voted to issue $5,500 of bonds for construction of water-works. Supply is to be from well, three miles distant; water will be pumped to reservoir and piped to town.

HARRINGTON, WASH.—Special election is to be held Dec. 5, for purpose of voting again on question of issuing bonds of $23,-000 for the purchase of the water system now owned by Oliver Dobson.

LA CAMAS, WASH.—A. D. McKeever, owner of the local water system, proposes to extend it and make other improvements, according to report. Post Office is Camas, Wash.

DUFUR, ORE.—We are advised that the Water Commissioners will soon call for bids for laying a new pipe line within the city limits. A supply pipe will not be put in until next summer. Est. cost of new municipal works is $20,000. H. C. Dodds is Mayor.

RAINIER, ORE.—Rainier Water, Light & Power Co., capitalized at $50,000, has been incorporated to furnish water and lighting system for this city. Edward F. Magoon, A. B. Richardson and Thos. D. Richardson are incorporators.

SAN FRANCISCO, CAL.—Plans and specifications for the construction of about nine miles of main canal, near Klamath Falls, Ore., with headworks, sluice gates, bridges, etc., may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked by U. S. Reclamation Service, until 2 p. m., Dec. 29, as is stated in our advertising columns.

LEHI, UTAH.—Lehi Irrigation Co., it is reported, will secure bids for the construction of a pumping station on Utah Lake. Work will call for installation of 350 or 400 HP. electric motor and pump of sufficient size to elevate 30 second ft. of water to a height of 50 to 75 ft., the water to be let out of the main pipe at different stations. The specifications will also provide for a wooden pipe line 40 ins. in diameter at the lake and tapering to 24 ins. at the other end.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until 11 a. m., Dec. 16, for construction of vitrified pipe sewer and drains and accessories at Navy Yard, Boston. All bids received Sept. 30 for this work were rejected. Est. cost of work is $6,000. Specifications may be seen at office of Engineering News, 220 Broadway, New York.

SALEM, MASS.—Bids are asked by Sewerage Commission, Jos. N. Peterson, Chn., until 4 p. m., Nov. 27, for furnishing and installing a sewage pumping plant; also for furnishing approximately 108 lin. ft. 36-in. pipe, 3 sleeves 30-in., 1⅛ curve 30-in., two 1-32 curve 30-in., and one special casting 30-in.

MILFORD, MASS.—Town Committee on Sewerage in a recent report recommended the introduction of a bill in the Legislature of 1906 providing for a tide water sewer system for the Charles River Valley, the expense to be borne by all the towns and cities in the valley and by the manufacturers along the river.

BOSTON, MASS.—Following bids were received Nov. 13 for constructing Sec. 4 Dorchester High Level Sewer, Dorchester, Mass.: D. E. Lynch, $23,875; Jas. D. Fallon, $21,580; F. A. Foster & Co., $19,781; W. J. Barry, $19,612; D. F. O'Connell Co., $17,-259; T. J. O'Connell, $16,463; J. A. Rooney, $16,455; P. W. Hill, $16,293; W. B. Bryne, Medford, Mass., $15,238. For sewerage work in Prescott St., East Boston, the following bids were received Nov. 17: D. E. Lynch, $4,725; Peter W. Hill, $3,522; T. J. O'Connell, Dorchester, Mass., $3,143.

HEMPSTEAD, N. Y.—Matter of installing sewerage plant for this place is under consideration.

BROOKLYN, N. Y.—Bids were opened Nov. 15 by Martin W. Littleton, Borough Pres., for labor and materials for constructing reinforced concrete sewer in Quay St.; bids were taken under three estimates, James Malloy & Co., Brooklyn, N. Y., being low bidder at $94,332, $96,238 and $92,426 respectively. See under Contract Prices.

NEW YORK, N. Y.—Contract for construction of sewer and sewage disposal plant at Flushing, Borough of Queens, has just been awarded to the UVALDE ASPHALT PAVING CO., 26 Court St., Brooklyn, N. Y., after approval of its plans by the New York City authorities, for $274,500. The sewage disposal plant is to have a capacity of 1,000,000 gallons of sewage per day, with provision for storm water. It will be operated by an applied oxygen process. Bids for the work were opened Aug. 31.

PLAINFIELD, N. J.—Council will on Dec. 4 take action on an ordinance providing for the establishment of a sewer pumping station for the benefit of portions of the city which cannot now use the sewer system in the gravity plan. Andrew J. Gavett is Cy. Surv.

Contract for constructing Sec. A of storm water sewer in Richmond St. has been awarded to STACY B. OPDYKE, JR., 1931 Broadway, New York, for about $3,662. Bids were opened Nov. 6.

OCEAN CITY, N. J.—Council Committee has taken steps to ascertain purchase price of plan of local sewer company, and also cost of new sewer system.

HARRISBURG, PA.—City has authorized a $400,000 loan for sewers, paving and bridges.

McKEESPORT, PA.—Bids are asked by C. E. Soles, Cy. Controller, until 4 p. m., Nov. 27, for constructing 15-in. terra cotta sewers in several streets.

EXETER, PA.—Borough Engineer is stated to be preparing plans for sewer system, for which a $20,000 bond issue was voted recently.

LANSFORD, PA.—This place has voted to issue $25,000 of bonds for installing sewerage.

LEHIGHTON, PA.—Construction of sewers in 1st, 2d, 3d and 4th Sts., and cross streets is said to be under consideration. Henry P. Honts is Pres. Council.

DRAVOSBURG, PA. — Borough Council Sewer Committee has reported to Council that construction of 9,880 ft. of sewer would practically complete the system. It is probable that the work, which will cost about $14,504, will be done.

READING, PA.—Councils have awarded contract to OLIVER M. WEAND, 536 Elm St., Reading Pa., to increase the capacity, operate and maintain the house sewage disposal plant at a cost of $46,000 a year for five years.

NORFOLK, VA.—It is stated that a sewer system may be constructed in the Seventh Ward next spring, at an est. cost of $150,000.

APALACHICOLA, FLA.—Bids are being asked by City Council until 7.30 p. m., Dec. 5, for purchase of $10,000 of sewerage bonds.

LIVE OAK, FLA.—We are advised that plans and specifications for construction of sewers for this city are to be prepared in about 30 days. Wm. W. Lyon, Palatka, Fla., is Engr. A $35,000 bond issue for sewerage was to be voted on Nov. 21. M. E. Broome is Mayor.

WEST END, ALA.—A $15,000 bond issue may be authorized, proceeds to be used for constructing sanitary sewers for this city. S. Norwood is Mayor. Post-office is Station No. 1, Montgomery, Ala.

ABBEVILLE, LA.—See under Water Supply-Irrigation.

SPRINGFIELD, TENN.—Springfield Sewerage Co., capitalized at $4,000, has been chartered, and proposes to construct sewer system. J. W. Henry, H. T. Stratton, Jr., and Frank Bell are interested.

SPRINGFIELD, O.—At recent election matter of issuing bonds for construction of sanitary sewers failed to receive necessary majority of votes. It is now proposed that the city proceed with the construction of the sewer system by issuing bonds in small amounts as needed, as it is legally authorized to do.

CINCINNATI, O.—We are advised that preliminary plans only have been prepared for the Mill Creek Valley sewer. J. E. Breen is Ch. Engr. Bd. Pub. Serv.

COLUMBUS, O.—Contract for constructing sewage purification works for this city has been let to SULLIVAN, MURPHY & MILES, Columbus, for $432,541. Bids were opened Nov. 2.

AKRON, O.—Bids are asked by Board Public Service, Chas. H. Watters, Secy., until noon, Nov. 28, for construction 4-ft. storm water sewer in parts Voris, Miami and Thornton Sts.

CINCINNATI, O.—Bids are asked by Board Public Service, Geo. F. Holmes, Clk., until noon, Nov. 28, for construction of sewers and drains in Omaha St., from Bathgate St. to C. L. & N. R. R.

ZANESVILLE, O.—Contract for constructing Muskingum Ave. storm water sewer has been let to JOHN E. BROWN, for $2,172.

SOUTH BROOKLYN, O.—Bids are asked by W. T. Pupikofer, Village Clk., until noon, Dec. 11, for constructing sewers in Franklindale Ave. and Lindale Ave. Post Office is Brooklyn, O.

CRYSTAL FALLS, MICH.—We are advised that plans for sewerage have been secured. Contract for the work may not be let for some time as Council cannot agree as to distribution of cost. E. G. Bradbury, Columbus, O., is Des. Engr.; Robt. Munn is Cy. Clk.

DES PLAINES, ILL.—We are advised that contract for constructing about 1,640 ft. 12-in. sewer, with catch-basins and connections for the village, has been let to THOS. IGLEHART, Morgan Park, Ill. Bids were opened by Village Clerk Nov. 14.

DIXON, ILL.—Board Local Improvements is considering construction of addition to West End sewer to be made at an est. cost of $3,100.

INDEPENDENCE, KAN.—Bis are asked by T. N. Sickels, Cy. Clk., until 3 p. m., Dec. 19, for the construction of the following sewers: Railroad St., general sewer, 575 ft. 10-in. sewer pipe, and 1,825 ft. 18-in. sewer pipe; Washington St., lateral sewer, 900 ft. 10-in. sewer pipe.

LINCOLN, NEB.—Contract for constructing about 9,500 ft. of 10-in. to 12-in. pipe sewer from the state farm to Salt Creek has been let to J. J. HANIGHEN, Omaha, Neb., for $7,747.

NORFOLK, NEB.—Construction of sewer system, to cost $50,000, is contemplated. Andrew Rosewater, Omaha, Neb., is Engr.

ABERDEEN, S. DAK.—Matter of constructing septic tanks for disposing of city's sewage is under consideration.

CAPE GIRARDEAU, MO.—We are advised that City Council will again take up the matter of sewerage for this place, and will ask for bids for the work early in 1906. Wm. H. Coerver is Mayor.

BRENHAM, TEX.—Bids are asked by this city, William Lusk, Mayor, until Dec. 4 for the construction of one line of sanitary sewer, consisting of 430 ft. of 8-in., 360 ft. of 10-in. and 2,766 ft. of 12-in. sewer, the city to furnish the pipe and all necessary material for its construction.

VANCOUVER, WASH.—Council has passed ordinance providing for a main sewer system and question will now be submitted to vote of the people, date of election to be fixed by Mayor Crawford.

LOS GATOS, CAL.—City Trustees have ordered plans and specifications prepared for sewers in University Ave., Bentley, Edelen, Tait, Bean, Bay View, Massol, Bachnan and Glen Ridge Aves.

OAKLAND, CAL.—City may issue $300,000 of bonds for improvement of sewer system. F. C. Turner, Cy. Engr., has been directed to prepare plans.

OXNARD, CAL.—Bids are reported asked by this city, C. J. Elliott, Cy. Clk., until 8 p. m., Nov. 28, for the construction of a sewer system to cost about $30,000. F. H. Olmstead, Engr., Los Angeles, Cal.

FRESNO, CAL.—We are advised that plans have been completed and accepted and bonds have been voted for an addition to the sewer system to cost $175,000. Geo. L. Hoxie is Cy. Engr.

DOUGLAS, ARIZ.—We are advised that construction of sewer system for this place is under discussion. Plans and estimates have been prepared by Frank H. Olmstead, Los Angeles, Cal., and he will supervise the construction, if bonds are voted. Election has not been called as yet. Albert M. Somes is Cy. Clk.

BOISE, IDAHO.—We are advised that bids were opened Nov. 9 for constructing about 30,000 ft. of 8-in. and 10-in. sewers for this city, the contract being let to JAMES KENNEDY, Fargo, N. Dak. Est. cost is $27,000. See under Contract Prices.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids were received by Department of Street Cleaning on Nov. 16 for removal of snow and ice in Borough of Brooklyn as follows: Donlon Contracting Co., 84 Broadway, Brooklyn, 16 cts. per cu. yd.; Continental Contracting & Trucking Co., 379 East 177th St., New York, 16 cts.; William Bradley, 324 Third Ave., New York, 18 cts.; Newman Construction Co., 1127 Willoughby Ave., Brooklyn, 19 cts.; Norton & Gorman, 303 Douglas St., Brooklyn, 21½ cts.; Charles Hart, Fourth Ave. and De Graw St., Brooklyn, 29 cts.

LEXINGTON, KY.—We are informed by Thomas A. Combs, Mayor, that city probably will begin negotiations at once for installation in this city of a garbage crematory. After plans and specifications are adopted it may be deemed necessary to advertise for bids. Noted last week.

DETROIT, MICH.—We are advised that an issue of bonds for $100,000 for purpose of providing a garbage plant has been authorized by authorities. A reduction or incinerating plant will be built by city. Bids have not yet been advertised. John F. McKinlay is Secy. Bd. of Health.

ROCKFORD, ILL.—The National Garbage & Fuel Co. has offered to dispose of garbage and refuse as fuel if the city will erect a plant to cost about $6,000.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

LEOMINSTER, MASS.—The following bids were received Nov. 16 by State Highway Commission, Boston, for surfacing a section of state highway here: Bruno & Milano, Boston, $6,544; Worcester Broken Stone Co., Worcester, $5,307; R. F. Hudson, Melrose, $5,135; O. T. BENEDICT, Pittsfield, $5,100 (awarded contract).

SYRACUSE, N. Y.—The Common Council has ordered the paving of South State St. with asphalt, brick or block, and the City Clerk has been directed to advertise for bids for the paving of Leavenworth Ave. Frank J. Schnauber is Cy. Engr.

NEW YORK, N. Y.—It is stated that the Board of Estimate and Apportionment will vote favorably on resolution appropriating $1,800,000 for improvement of Shore Road in Borough of Brooklyn.

HARRISBURG, PA.—Applications for state aid in the construction of the following roads have been received by State Highway Commissioner Hunter: 12,000 ft., Lackawanna County; 4,200 ft., Monroe County; 27,960 ft., Mercer County; 26,880 ft., Tioga County.

HARRISBURG, PA.—This city has voted to increase its bonded indebtedness by $100,000 for the paving of street intersections and in front of non-assessable properties. Bids, open to all varieties of approved paving, will be asked for several miles of pavement, early next year. M. B. Cowden, Cy. Engr.

ROANOKE, VA.—City will vote on the issuance of $375,000 of bonds for street and sewer purposes.

PETERSBURG, VA.—This city proposes to construct granolithic sidewalks at a cost of $30,000. R. D. Budd is Cy. Engr.

RICHMOND, VA.—Common Council has passed an ordinance for the appropriation of $50,000 for paving Grace and Franklin Sts. W. E. Cutshaw is Cy. Engr.

NORFOLK, VA.—Commoun Council has passed to its first reading an ordinance appropriating $21,000 for the improvement of Redgate Ave. W. T. Brooke is Cy. Engr.

BIRMINGHAM, ALA.—The contract for paving a portion of Highland Ave. with bituminous macadam has been let to the SOUTHERN BITULITHIC PAVING CO., for $29,745.

DANDRIDGE, TENN.—We are informed that Jefferson County has voted $200,000 in bonds for road improvements. J. F. Hall, County Clk.

COLUMBUS, O.—Bids are asked by Board Public Service until Nov. 28 for brick and stone paving on sundry streets. Julian Griggs, Ch. Engr.

NILES, O.—The citizens voted against issuing $55,000 of bonds for street improvements.

YOUNGSTOWN, O.—At the election Nov. 7 the people voted for extensive improvement of county roads in Mahoning County. W. B. Jones is County Audr.

ATHENS, O.—No contract was let for grading, curbing, paving, etc., Union St., and nothing will be done until spring. W. B. Golden is Vil. Clk.

CINCINNATI, O.—Bids are asked by Board Public Service until Dec. 4 for grading, curbing and paving with brick on Acadamy Ave.; also for grading, curbing and macadamizing Purcell Ave. Geo. F. Holmes, Clk.

PAOLI, IND.—Bids are asked by County Commissioners until 2 p. m., Dec. 6, for construction of the Orangeville and Abydeil Road, 5,280 ft. long, in Orangeville Township. Geo. R. Cadle, Chn.

BROWNSTOWN, IND.—Bids are asked by County Commissioners until Dec. 5 for constructing about 1¼ miles of extension of the Gross Mill and Mt. Zion Road in Owen Township. H. W. Wacker, County Audr.

UNION, IND.—Bids are asked by County Commissioners until Dec. 4 for constructing a public highway in Ray Township. Chas. A. Miller, County Audr.

KALAMAZOO, MICH.—It is stated that bids will be received by City Clerk about Dec. 18 for paving of Rose St. M. C. Taft is Cy. Engr.

BLOOMINGTON, ILL.—Elmer Folsom, Cy. Engr., writes us that the contract for resurfacing North Main St. with asphalt has been let to the BARBER ASPHALT PAVING CO., at $1.24 per sq. yd.

WARREN, WIS.—Scott St. and Washington Ave., it is stated, are to be paved next year with asphalt block.

DAVENPORT, IA.—The Commissioners on Streets will advertise for bids about Feb. 1 for three miles of asphalt and brick paving to be laid in the spring. Thos. Murray is Cy. Engr.

ST. PAUL, MINN.—The Board Public Works has ordered a favorable report on grading Dunlap St.

ST. PAUL, MINN.—The Board Public Works has decided to postpone action upon the macadamizing and curbing of South Wabasha St. Est. cost, $11,350. L. E. Rundlett is Cy. Engr.

City Engineer has sent to Board Public Works a preliminary estimate of $3,000 for paving Fifth St.

CROOKSTON, MINN.—J. E. Carroll, Cy. Engr., informs us that plans and specifications are being prepared and bids will be called for some time in January for the paving of Houston Ave. with asphalt, about 15,000 sq. yds.

FORT SCOTT, KAN.—This city will let contract in the spring for eight blocks of brick paving on Judson St. and four blocks on West Wall St. U. S. Stoner is Cy. Engr.

COLUMBIA, MO.—Bids were rejected for grading and improving Keiser Ave., from College Ave. to Hocoday St., and Virginia Ave., from Hudson Ave. to Lake St., and the matter was laid over. E. B. Cauthorn is Cy. Engr.

JOPLIN, MO.—All bids were rejected for constructing sidewalks on Jackson Ave. New estimate was ordered, to include both sides of Jackson St. Work will not be done before spring. W. W. Van Frank is Cy. Engr.

KANSAS CITY, MO.—The Board Public Works will ask Metropolitan Street Ry. Co. to repair paving between its tracks on Main and Delaware Sts.

SHERMAN, TEX.—Chas. E. Haydon, Cy. Engr., states that all bids opened Oct. 23 for 14,290 sq. yds. brick paving have been rejected. Date for new bids has not yet been set.

SAN MARCOS, TEX.—The city has voted to issue $3,000 in bonds for street improvements. J. R. Porter is Mayor.

EL PASO, TEX.—Geo. C. Wenlberly, Cy. Engr., writes us that the city contemplates paving a portion of business streets, about 90,000 sq. yds., for which $175,000 of bonds have been voted. Material not yet decided upon.

TACOMA, WASH.—Bids for the paving of Jefferson and Commerce Sts., about 40,000 sq. yds. asphalt paving, will probably be called for in February. Frank L. Davis is Cy. Engr.

SEATTLE, WASH.—Bids will be received by C. B. Bagley, Secy. Bd. Pub. Wks., until Dec. 2 for laying vitrified brick and sandstone block paving on Prefontaine Place and other streets. Est. cost, $105,000. R. H. Thompson, Cy. Engr.

SEATTLE, WASH.—The following contracts have been awarded by Board Public Works: Paving King and other streets, sandstone block and granite, STIRRAT & GOETZ, $49,853; grading 30th Ave., JOHN KALBERG, $4,305; grading 31st Ave. and other streets, JOHN KALBERG, $6,868; planking 15th Ave., W., and other streets, THORSVIG & LINDLAND, $5,082.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

SYRACUSE, N. Y.—The New York State Brewing Co. has been incorporated with a capital of $400,000 to build and operate a brewery. Incorporators: Dr. Abram Hoffman, P. J. Tierney and Fred. Sembach.

NEWARK, N. J.—We are informed that the Lidgerwood Mfg. Co., 196 Liberty St., New York City, has awarded the general contract for its new plant here to MILLER-COLLINS CO., 1133 Broadway, New York City. Buildings will cover approximately nine acres when the plant is completely finished, and will cost approximately $500,000 exclusive of machinery, and land. The power house, pattern, storage and foundry will be started immediately. The construction will consist of reinforced concrete, structural steel, and brick work, with wood and slag roof over foundry. The Miller-Collins Co. are in the market for prices on piling, cement, sand, crushed stone, common brick, spruce and pine lumber, windows and sash, doors, skylights, sheet metal work, flooring, structural steel (about 500 tons), tin covered doors, painting, etc.

BALTIMORE, MD.—Frederick Bergner & Co., manufacturers of fancy boxes, albums, etc., 308 West Pratt St., have awarded contract to MORROW BROS., 212 Clay St., for construction of foundations for new factory building they are going to erect at Paca and Cross Sts.

BALTIMORE, MD.—The South Baltimore Steel Car & Foundry Co., Howard Carlton, Pres., Continental Bldg., which has an authorized capital stock of $1,000,000, is considering the issuance of additional capital stock to enlarge its plant.

The Monumental Brewing Co., Nat'l Marine Bank Bldg., has awarded contract to J. H. MILLER, 110 Dover St., for construction of an addition to its plant at Seventh and Lombard Sts. Brick, 3 stories, 32 × 72 ft. Otto C. Wolf, Arch., 1023 Arch St., Philadelphia, Pa. Previously noted.

READERS' WANTS Our readers, and others, who are in the market for supplies, machinery, etc., or to award contracts for work, will nearly always find the names of the firms who handle the material they want by referring to our advertising pages. Our advertisers are constantly changing their cards, and for this reason we advise our readers to look over the paper from the front cover to the back cover so as to keep in touch with up-to-date contractors' material, methods, etc. **Mention Engineering News** when writing our advertisers. If, however, you do not find advertised just what you want please write us at once and we will notify the proper firms without delay, and **without charge.—Engineering News can help buyers.**

SAND LIME BRICK.—Dravosburg, Pa.—H. W. Jencks, of Dravosburg, writes us that he wants data relating to the manufacture and use of sand lime brick.

STAMPED METAL FORMS.—Youngstown, O.—Thos. Williams, 21 Fruit St., writes us that he wants the addresses of makers of stamped metal forms for blocks.

ELECTRIC ROCK DRILLS.—New York, N. Y.—The Dobbie Fdy. & Machine Co., 42 Dey St., writes us that it wants to know the names of makers of electric rock drills.

TANNING AND MANUFACTURE OF SHOES.—Little Rock, Ark.—Robt. L. Lund, Consult. Engr., Little Rock, writes us that he wants to secure data relating to the above subjects.

OIL TESTING AND FRICTION MACHINES.—San Francisco, Cal.—A. Auchie Cunningham, Consult. Chemist, 500 Montgomery St., writes us that he wishes the names of firms handling oil testing (friction) machines (lubricating).

GLOVES, BOOTS, HATS, COATS, ETC., FOR ENGINEERS.—Mount Vernon, N. Y.—C. F. Twidy, 14 South 11th Ave., Mt. Vernon, writes us that he wishes the addresses of firms who fit out engineering and surveying parties with the above, etc.

HEAT REGULATORS, HEAT CONTROLLERS AND THERMOSTATS FOR STEAM AND GAS.—New Haven, Conn.—Robt. T. Easterbrook, care W. R. A. Co., Cartridge Dept., New Haven, writes us that he wishes the names of makers of the above.

TRACTION ENGINES OR MOTOR WAGONS.—Washington, D. C.—Lt. Harold C. Fiske, U. S. Engrs., Washington Barracks, D. C., writes us that he wants the names and addresses of makers of traction engines or heavy motor wagons, to be used in hauling wagons over country roads.

MAGNESIUM LAMP FOR MINES.—South Australia.—Arkell & Douglas, Commission Merchants, 11 Broadway, New York, N. Y., writes us that a client, a large buyer of machinery, etc., located in South Australia, has asked for prices on a magnesium lamp for use in mines. These lamps are to burn, as they term it, a magnesium ribbon.

AUTOMOBILE TRACTION ENGINES AND DISK PLOW COMBINATIONS.—Mexico.—E. W. Graves, of Graves & Graves, contractors, care A. F. Perez, of Frontera (Tobasco), Mex., has telegraphed us that he wants at once catalogues from makers of automobile traction engines and disk plow combinations. It is hoped that all interested in this subject will send data, prices, illustrations, etc., at once.

STEAM BOILERS, 20 TO 50 HP., STEAM HOISTING ENGINES FOR INCLINE OF 200 FT., CONCENTRATORS, PUMPS, CRUSHERS, ETC.—Salvador, Cen. Am.—S. F. Lord, U. S. Consular Agt., at La Union, Salvador, C. A., writes us that the above material is wanted by the Gigante Mining & Milling Co., of Jocoro, Salvador, as it owns a five-stamp mill. Mr. Lord also states that the following firms are constantly buying various lines of machinery: Jaime Alvira, Augustin Gotuzzo and Prudencio Slach, of Santiago de Maria; E. Colombo Conessa, Domingo Flores; S. F. Lord, Lisandro Letona; Carlos H. Milner and Carlos Wieser, of San Miguel; Butters Salvador Mines, Ltd., of Santa Rosa; and Macay & Pullinger, of Tabanco, Salvador.

CEDAR SPRINGS, VA.—A concentrating plant will be erected here by W. G. Bryant of Carterville, Mo.

LYNCHBRG, VA.—E. A. Quisenberry, of Lexington, proposes to organize a $40,000 company to establish a stove foundry here.

RICHMOND, VA.—Wm. C. West, Arch., 1103 East Main St., has prepared plans for two-story dairy building, 50 × 75 ft., for the Rennie Dairy Co., F. F. Rennie, Pres. Address owner. Cost, $5,000.

FREDERICKSBURG, VA.—The ice factory owned by the Fredericksburg Ice Co. was destroyed by fire. Loss, $15,000.

NORFOLK, VA.—Essex Mfg. Co. has incorporated with $25,000 cap. stock to manufacture toys, books, etc. Thos. H. Pace is Gen. Mgr.

RICHMOND, VA.—Fire destroyed the Virginia Packing Co.'s plant; loss, $200,000.

SISTERVILLE, W. VA.—A glass factory will probably be located here. Address C. Henderson, Secy. Merchant's Assoc.

THOMSON, GA.—The Thomson Hardware Co. contemplates erecting a buggy factory here.

VIENNA, GA.—W. I. Horne is in the market for planing mill machinery and desires catalogues and prices.

LAGRANGE, GA.—The Troup Co. which was organized in September, with a capital of $150,000, desires plans and specifications for fertilizer plant. Address Frank L. Hudson, Supt.

BARNESVILLE, GA.—W. C. Stafford, Mayor, of Cochran, C. H. Humphrey, T. S. Yates and others have organized a $10,000 company to erect a canning factory here.

COLUMBUS, GA.—The Columbus Mfg. Co. contemplates the erection of another mill. F. B. Gordon is Pres.

ESTIFFANULGA, FLA.—The Estaffanulga Naval Stores & Mfg. Co., recently incorporated with $100,000 cap. stock, will operate saw mill with daily capacity of 20,000 ft., shingle mill with daily output of 75,000 shingles, two turpentine stills, brick plant, etc. About $25,000 will be invested in buildings and equipment. John A. Davis is Pres.

GADSDEN, ALA.—The Etowah Fertilizer Co. has been organized by W. L. Sampey, F. M. Douglas and H. Herzfield, to erect a fertilizer factory at a cost of between $12,000 and $15,000.

ANDALUSIA, ALA.—F. K. Feagin and the Andalusia Bottling Works will erect an ice factory at a cost of $20,000.

JACKSON, MISS.—A $300,000 cotton mill will probably be located here. Secretary Board of Trade can give information.

MEMPHIS, TENN.—The Bohlen-Huse Ice Co. will add a cold storage plant and make other additions at a cost of $100,000. A new stable will be built at a cost of $35,000.

GREENVILLE, TENN.—R. B. Hall and associates have organized a company with an authorized capital stock of $10,000 to establish a furniture factory.

MEMPHIS, TENN.—The Dixie Match Co., capital $500,000, will establish a plant here at a cost of $100,000. The Mississippi Bond & Investment Co. is the principal promoter.

PADUCAH, KY.—The Langstaff Orm Mfg. Co. will rebuild at once its saw mill, recently destroyed by fire.

YOUNGSTOWN, O.—The Reliance Edge Tool Co., recently incorporated with a capital of $75,000, will erect a new plant. Guy R. Dudley is Gen. Mgr.

INDIANAPOLIS, IND.—The T. B. Laycock Mfg. Co. has taken out a building permit for new plant to be erected at Gale and 20th Sts. Cost, $80,000.

HARTFORD CITY, IND.—D. R. Morrison is at the head of a company proposing to build a large plant here to manufacture gas engines.

PERU, IND.—Bids will soon be asked for the construction of a manufacturing plant in this city to accommodate the Model Gas Engine Co., of Auburn, Ind., which proposes to remove its works to Peru. R. H. Bouslog and R. A. Edwards are interested.

GAS CITY, IND.—The Indiana Edge Tool Co. will rebuild its factory recently destoyed by fire. The estimated cost of the proposed building is $25,000.

KENDALLVILLE, IND.—J. R. Baker & Son, will receive bids for the building of a plant to manufacture hardware specialties. Power house and foundry are not included.

FT. WAYNE, IND.—The Ft. Wayne Rolling Mill Co. has incorporated with the purpose of establishing plant to manufacture iron and steel. Edward F. Yarnelle, B. A. Hegeman and others, directors.

DETROIT, MICH.—Malcomsen & Higginbotham, Archs., 404 Moffat Bldg., are preparing plans and will be ready for figures the last part of this month for a two-story manufacturing plant, 60 × 400 ft. Cost, $50,000.

BELLAIRE, MICH.—The plant of the Bellaire Woodenware Co. was destroyed by fire. Loss, $50,000.

CHELSEA, MICH.—The Glazier Stove Co. will rebuild factory for manufacture of steel ranges and gasoline stoves. Brick, mill construction, 150 × 200 ft. Henry G. Stimson is Secy.

FLINT, MICH.—Field, Hinchman & Smith, Archs., 710 Washington Arcade Bldg., Detroit, prepared plans for an addition to automobile factory of the Buick Motor Co., Flint. They have let contract for grading, excavating and concrete foundations to C. A. MOSES, of Chicago, Ill., and latter will take figures for superstructure.

HACKLEY, WIS.—The Michigan Chemical Co., capital $100,000, has been organized and will install a chemical plant at Hackley, for the manufacture of charcoal, wood alcohol, etc. J. H. Berry, Detroit, Mich., is Pres.; Chas. A. Phelps, Grand Rapids, Mich., Treas.

MINNEAPOLIS, MINN.—The Washburn Coupler Co., E. C. Washburn, Mgr., Minneapolis, will establish a steel plant here for the manufacture of steel castings. Cost, $200,000.

ST. LOUIS, MO.—The J. W. Moon Buggy Co. will erect a three-story brick factory and warehouse at 103 Cornelia St., at a cost of $25,000.

BRINKLEY, ARK.—The Southern Creamery Co. has been incorporated to build and operate a condensing milk plant, about 35 miles west of Brinkley. Cost, $25,000. Address H. G. Duttlinger, Pres., Memphis, Tenn.

HOUSTON, TEX.—The plant of the Dickson Car Wheel Works was destroyed by fire. Loss, $20,000.

LAWTON, OKLA.—The Lawton Ice Co. will build a creamery, of which H. A. Loyd will be manager.

The Humphrey Mill & Elevator Co. will erect a 200-barrel flouring mill, in the spring, at a cost of $25,000.

HAMILTON, ONT.—Stewart & Witton Archs., have prepared plans for a three-story brick addition to Norton Mfg. Co.'s plant. Cost, $10,000.

MONTREAL, QUE.—Robt. Findlay, Arch., has plans for factory building for L. H. Packard, Ltd., McGill St. [illegible] stories, 96 × 98 ft. Cost [illegible] and stone, 5 [illegible]

The plant of the Major [illegible] stroyed by fire loss, $75,[illegible] was de-

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

STREET SIGNS.—McKeesport, Pa.—Bids are asked by C. E. Soles, City Engr., until 4 p. m., Nov. 27, for [illegible] street signs.

DREDGING.—New York, N. Y.—Bids are asked until noon, Dec. 11, [illegible] dredging in Huntington Harbor, Canarsie and Great South Bay, N. Y. Col. W. [illegible] Lt.-Col. U. S. Engrs. (Advertised [illegible] Engineering News.)

GRADING.—Portsmouth, N. [illegible]—Contract for grading and excavating [illegible] Navy Yard, Portsmouth (bids opened No[illegible] has been let to BOSTON & NEW YORK CONTRACTING CO., 220 Devonshire St., [illegible], Mass., for $18,939.

DREDGING, ETC.—Richmond, Va.—Bids are asked until noon, Dec. 22, [illegible] dredging, removing rock, and constructing [illegible] and repairing jetties in James River. [illegible] Lt.-Col. R. L. Hoxie, U. S. Engrs. [illegible] (Advertised, Engineering News.)

CHANOINE WICKETS.—Pittsburgh, Pa.—Bids are asked until noon, Dec. [illegible] for building 127 Chanoine wickets for Dams 2 and 112 Chanoine wickets for Dam 3, Ohio River. Major Wm. L. Sibert, U. S. Engrs. (Advertised, Engineering News.)

STONE CRUSHER.—Portland, Me.—Bids are asked by Committee on Public Works, Edward M. Hunt, Secy., until [illegible] 1, for furnishing stone crushing plant consisting of a stone crusher, elevator, [illegible] engine and boiler. Specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

CEMENT, PILES.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, Pier A, Battery Pl., until 2 p. m., Dec. 1, for furnishing and delivering about 10,000 bbls. Portland cement. Bids are also asked for furnishing and delivering 300 oak piles.

BOILER.—Asbury Park, N. J.—Plans and specifications for furnishing this city with a 200 HP. internal furnace tubular boiler may be seen at office of Engineering News, 220 Broadway, New York. Bids are to be opened Nov. 27, as is stated in our advertising columns.

FIRE ALARM SYSTEMS.—New York, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Park Ave. and 59th St., until 11 a. m., Nov. 27, for installing fire alarm telegraph system in Public Schools 2, 4, 5, 7, 8, 9, 10, 12, 13, 15, 30, 32, 39, 40, 47 and 111, Borough of Brooklyn.

DITCH WORK.—Peoria, Ill.—Cave Valley Land & Cattle Co., A. W. Wilson, Secy., Peoria, is taking bids for digging about five miles of dredge ditch on its ranch at Pomona, Jackson County, Ill. About 45,000 yds. of earth are to be removed. George Kennedy, Jr., Engr., Murphysboro, Ill.

METAL WORK.—Philadelphia, Pa.—Bids are asked at office of Light House Engineer, Philadelphia, until noon, Dec. 18, for furnishing metal work for the foundation of the Elbow of Cross Ledge Light Station, Delaware Bay, N. J. Major J. C. Sanford, U. S. Engrs. (Advertised, Engineering News.)

DREDGING.—Washington, D. C.—Gen. Mackenzie, Chief of Engineers, has awarded to the ATLANTIC, PACIFIC & GULF CO. the contract for dredging about 272,000 cu. yds. of material from the Washington Channel of the Potomac River below the long bridge at its bid, aggregating about $39,712.

TELEPHONE SYSTEM.—Billings, Mont.—Specifications for installing a telephone system having eight or more telephone stations and 22 or more miles of pole line, may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked by Engineer, U. S. Reclamation Service, Billings, until 3 p. m., Dec. 15, as is stated in our advertising columns.

PIPE, FITTINGS, ETC.—Washington, D. C.—Bids are asked by D. W. Ross, General Purchasing Officer, Isthmian Canal Commission, until 10.30 a. m., Dec. 8, for furnishing iron pipe and fittings, portable forges, asbestos cement, wire screenings, etc.

FLUSHING TUNNEL.—Brooklyn, N. Y.—Following bids were received Nov. 15 by Martin W. Littleton, Borough Pres., for construction of a flushing tunnel for the improvement of Gowanus Canal: Borough Construction Co., 44 Court St., Brooklyn, $931,552; Jas. Malloy & Co., Brooklyn, $892,276; Jno. Peirce Co., 277 Broadway, New York, $715,472. See under Contract Prices.

CEMENT, LAMPS, PIPE, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until 10 a. m., Dec. 5, for furnishing a quantity of naval supplies, among which are the following: Schedule 238, arc lamps, Portland cement, sand, lumber, iron pipe and fittings, radiators; schedule 239, incandescent lamps, electrical wire, fire brick, portable crane, etc.; schedule 242, shaft hangers, steel bars, sheets and angles, etc. H. T. B. Harris, Pay M. Gen. U. S. N.

FERRY HOUSE.—New York, N. Y.—Following bids were opened Nov. 17 by Maurice Featherson, Comr. Docks, for labor and materials required for preparing for and building at the foot of Whitehall St., East River, a new ferry house and structures appurtenant thereto, in connection with the new Whitehall ferry terminal: Luke A. Burke, 30th St. and 9th Ave., $412,750; Buckley Realty & Const. Co., 42d St. and Broadway, $329,500; R. P. Staats, 1 Broadway, $414,750; Jno. R. Sheehan & Co., 160 Fifth Ave., $384,000; Northeastern Const. Co., Fuller Bldg., 23d St. and Broadway, $318,900.

DRAINAGE TUNNEL.—Cripple Creek, Colo.—The Cripple Creek Mine Owners' Association has decided to construct the deep drainage tunnel recommended by D. W.

Brunton Consult. Engr., Room 506, Boston Bldg., Denver, Colo. The proposition involves the expenditure of from $800,000 to $1,000,000. At a recent meeting of the Mine Owners' Association in Colorado Springs a committee, with Sherwood Aldrich, Chn., was appointed to devise a method of financing the work. It is proposed to form a stock company to drive the tunnel, the revenues of the company to be derived from assessments from the mine owners benefited by the work.

DREDGING.—Nyack, N. Y.—Manhattan Trap Rock Co., W. R. Fralick, Supt., Nyack, is asking bids for about 17,000 cu. yds. dredging. The work is to be done about the dock of the company, the specifications being as follows: Dock is 40 × 400; runs out in river at right angles to shore, average depth of water within areas is 11.8 ft. at high tide. Following depths are to be obtained: 17 ft. back 200 ft. from end of dock and 160 ft. south, 17 ft. back 300 ft. from end of dock and 160 ft. south, 17 ft. out 40 ft. from end of dock. Cross section sheets show practically 17,000 yds. to be removed. Contractor must find his own dumping ground, etc., and work is to be commenced within two weeks of acceptance of bid, and continued at least 10 hrs. per day until completed. (Advertised, Engineering News.)

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

IMPROVEMENT WORK.—Hawaii.—A. L. C. Atkinson, Secy. of Territory of Hawaii, is now in this country for the purpose of selling $750,000 of territorial bonds for improvement purposes. He will call on the President at Washington to obtain his authorization for the sale of the bonds.

RAILWAY.—Alaska.—Advices from Los Angeles, Cal., state that plans are being formulated in that city for a railway to extend through the entire length of Alaska. Harry White, a former Mayor of Seattle, Wash., is at the head of the enterprise, which includes an application to Congress during the coming session for a government subsidy. If successful the enterprise will involve an expenditure of about $40,000,000. The road will be nearly 5,000 miles in length.

DOCKS, BUILDING, ETC.—Cuba.—A correspondent in Havana writes us that a concession for building and operating a dock in Havana Harbor has been granted by the Cuban Government to the Compania Del Puerto, of which Ernest Lee Conant, 32 Liberty St., New York, and Mercadores 4, Havana, Cuba, is President. In return for the concession the company is to build a new custom-house for the government. The scheme was projected originally by Sylvester Scovel, and shortly before his death was submitted to the Government for acceptance. The pier is to be provided with an elaborate system of electrical hoisting and traveling apparatus. The work will involve the expenditure of about $3,000,000.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

BRICK PAVING.—Kirksville, Mo.—Bids were opened Nov. 6 by City Council, Stephen Hall, Cy. Engr., for paving Washington, Elson, Harrison and Franklin Sts. with repressed vitrified paving block for a length of 1,272 ft. and a width of 62 ft. Foundation is to be of cement concrete (American Portland), 6 ins. thick; curb is to be of cement concrete, 6 ins. × 24 ins. × 8 ins. The contract was awarded to C. E. HALL, Clinton, Mo., at the following bid: 8,560 sq. yds. paving, $1.95 (bid includes grading of street and cement concrete foundation); 2,116 lin. ft. curb, $0.46; 703 ft. 8-in. sewer pipe, $0.21.

BRICK PAVING.—Huntington, W. Va.—Bids were opened Nov. 4 by Jno. Coon, Chn. Street Com., Jno. H. Sanborn, Cy. Engr., for paving Eighth St. with vitrified brick for a length of 3,000 ft. and a width of 53.2 ft.; thickness of wearing coat, 4-in.; foundation gravel and sand 10 ins. thick; curb of concrete, 6-in., with 16-in. gutter. The bids received were as follows; (1) being for 17,000 sq. yds. paving, (2) 5,500 lin. ft. curb and gutter, and (3) the totals: KYLE, ULLOM & KYLE, Huntington, W. Va., (1) $1.16, (2) $0.40, (3) $21,920 (awarded contract); Harrison & Deam, Huntington, W. Va., (1) $1.15, (2) $0.47, (3) $22,135; M. F. Leonard, Gallipolis, O., (1) $1.18, (2) $0.47, (3) $22,645; Austin & Dillon, Huntington, W. Va., (1) $1.23, (2) $0.48, (3) $23,550.

*CONCRETE WALL.—Chattanooga, Tenn.—The only bid received Nov. 20, by Major H. C. Newcomer, U. S. Engrs., for constructing concrete wall at Colbert Shoals, Ala., was submitted by McGee & Co., Kansas City, Mo., and was as follows: 8,000 cu. yds. earth excavation, $0.50; 250 cu. yds. rock excavation, $3; 7,800 cu. yds. concrete, $8; total, $67,150.

CONCRETE SEWER.—Brooklyn, N. Y.—Bids were opened Nov. 15 by Martin W. Littleton, Pres. Brooklyn Borough, for furnishing labor and materials for constructing sewer in Quay St., from East River to West St., etc. Bids were taken on three estimates, A, B and C, the only difference being that bids on the 48-in., 36-in. and 30-in. sewer under estimates B and C were taken on Sec. B and Sec. C, respectively. The total bids received under (1) Estimate B and (2) Estimate C, were as follows: Newman Construction Co., 243 Euclid Ave., Brooklyn, (1) $119,783, (2) $109,830; Wm. P. McGarry, 236 Huron St., Brooklyn, (1) $119,[illegible] $123,927; James Malloy & Co., Brooklyn, (1) $96,238, (2) $92,426; Jas. H. Holmes, 271 North Sixth St., Brooklyn, (1) $97,630, (2) $102,741; Jno. J. Creem, 752 Madison St., Brooklyn, (1) $124,149, (2) $120,857; Donlan Cont. Co., 82 South Third St., Brooklyn, (1) $124,691, (2) $120,164. The bids under Estimate A were as follows: (1) Newman Construction Co., (2) Wm. P. McGarry, (3) Jas. Malloy & Co., (4) Jas. H. Holmes, (5) Jno. J. Creem, (6) Donlan Cont. Co.:

BIDS RECEIVED AT BROOKLYN, N. Y., NOVEMBER 15, 1905, BY MARTIN W. LITTLETON, PRESIDENT OF BROOKLYN BOROUGH, FOR FURNISHING LABOR AND MATERIAL FOR CONSTRUCTING SEWER IN QUAY STREET, FROM EAST RIVER TO WEST STREET, ETC.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)
66-in. reinforced concrete sewer	1,315 lin. ft.	$27.60	$25.23	$18.00	$23.00	$28.00	$25.00
60-in. " " "	685 "	33.35	20.44	15.00	16.00	22.00	25.00
54-in. " " "	665 "	18.65	17.89	11.00	15.00	20.00	23.00
48-in. sewer section A	866 "	14.25	14.19	10.00	10.50	15.00	20.00
36-in. " " "	715 "	11.10	9.79	8.00	9.00	10.00	15.00
30-in. " " "	325 "	12.30	7.77	7.00	7.00	10.00	10.00
24-in. pipe sewer	540 "	3.25	4.44	4.50	4.00	5.00	3.00
18-in. " "	660 "	2.50	4.00	4.00	3.50	4.00	3.00
15-in. " "	405 "	2.25	3.27	3.50	3.00	3.00	2.00
12 in. " "	30 "	2.00	2.67	2.00	2.50	2.50	2.00
Manholes	47	55.00	50.00	50.00	75.00	45.00	40.00
Sewer basin	1 "	150.00	150.00	150.00	150.00	150.00	100.00
Foundation, planking and pile coping	312,000 ft., B.M.	.01	32.00	30.00	25.00	35.00	25.00
Sheeting and bracing	220,000 "	.01	32.00	.01	17.00	.01	20.00
Piles	47,000 lin. ft.	.25	.25	.30	.21	.25	.20
Sewer basin, reconnected	1	50.00	75.00	50.00	100.00	50.00	10.00
Concrete cradle	179 cu. yds.	.01	7.25	5.00	.01	.01	.01
12-in. pipe, sub-drain	3,950 lin. ft.	.01	.60	.75	.01	1.10	.61
Totals		$107,924	$122,348	$94,332	$99,969	$124,149	$124,691

SEWERS.—Clinton, Ia.—Bids were received Oct. 25 by City Council, Chas. P. Chase, of Iowa Engineering Co., Constructing Engr., for construction of sewers in District No. 4. Price bid per lin. ft. includes 732 yds. repaving, and also includes earth excavation; proportion of trenching in rock is one-half. The bids received were as follows; (1) Daly & Brown, Jacksonville, Ill.; (2) Greene & Sons Co., Appleton, Wis.; (3) M. Ford, Cedar Rapids, Ia.; (4) Chas. M. Porter, Chicago, Ill.; (5) PEOPLE'S CONSTRUCTION CO., Davenport, Ia. (awarded contract):

BIDS RECEIVED AT CLINTON, IA., OCTOBER 25, 1905, BY CITY COUNCIL, FOR CONSTRUCTION OF SEWERS IN DISTRICT NO. 4.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)
Steel and concrete, earth section, 6-ft. 3-in.x10-ft	1,700 ft.	$13.21	$15.20	$14.53	$11.30	$11.50
" " " rock section, 6-ft. 3-in.x10 ft.	380 "	7.42	9.05	16.37	11.25	8.50
" " " rock section, 6-ft. 3-in.x9-ft	1,360 "	6.60	7.00	13.30	10.00	7.55
" " " rock section, 5-ft. 9-in.x8-ft	372 "	6.40	6.61	10.15	8.60	7.50
" " " earth section, 5-ft. 9 in.x8-ft	500 "	7.17	10.00	8.57	10.15	7.85
Steel and concrete circular, 66-in	1,040 "	4.72	5.00	6.90	6.30	4.50
Plain concrete, rock section, 5-ft. 3-in.x7-ft	400 "	4.20	6.45	6.67	7.65	4.95
" " earth section, 5-ft. 3-in.x7-ft	400 "	4.95	6.45	7.82	8.20	5.60
" " earth section, 5-ft. 3-in.x6-ft	600 "	4.95	6.80	7.82	7.50	5.35
" " rock section, 5-ft. 3-in.x6-ft	200 "	4.10	6.80	7.82	6.60	4.45
" " rock section, 4-ft. 6-in.x5-ft. 6-in	510 "	3.42	5.40	7.48	6.00	4.10
" " earth section, 4-ft. 6-in.x5-ft. 6-in	300 "	4.30	5.40	7.48	6.85	4.70
" " rock section, 4-ft. 3-in.x5-ft	810 "	3.12	4.65	4.48	6.25	3.52
" " circular, 60-in	376 "	3.20	4.05	8.33	5.10	8.65
" " " 57-in	376 "	2.80	4.05	6.96	5.10	3.25
" " " 51-in	376 "	2.63	1.90	4.83	4.35	2.80
" " 42-in	786 "	2.40	2.43	3.91	4.10	2.60
" " rock section, 40-in	1,050 "	2.20	4.60	5.86	4.10	2.80
" " earth section, 40-in	340 "	2.80	5.25	4.88	4.10	2.80
2-ring brick circular, 48-in	800 "	4.00	5.00	5.75	6.25	4.60
2-ring brick, 40-in	480 "	3.65	4.70	3.11	5.50	3.85
1-ring brick, 42-in	400 "	2.70	2.42	4.88	4.10	3.30
" " 30-in.x45-in	1,200 "	2.4[illegible]	2.42	4.20	3.20	3.15
" " 26-in.x39-in	800 "	2.40	2.20	3.39	2.90	3.00
" " 28-in.x42-in	400 "	2.40	2.00	4.54	3.00	2.75
" " 22-in.x33-in	410 "	2.20	1.75	3.16	2.65	2.50
Vitrified pipe, kiln run, 36-in	1,417 "	3.95	5.10	4.46	4.50	4.30
" " " 30-in	2,077 "	3.52	3.80	3.45	3.10	3.60
" " " 24-in	1,321 "	1.80	2.10	3.05	2.10	2.10
" " " 22-in	820 "	1.70	1.80	2.87	1.90	2.10
" " 18-in	1,871 "	1.10	1.20	1.84	1.50	1.40
" " 12-in	200 "	.80	.60	1.43	.90	1.00
Catch basins, complete	153	46.00	26.50	25.00	30.00	32.00
Catch basin connecting pipe, 10-in	3,978 ft.	.40	.50	.75	.50	.85
Manholes, complete	48	36.00	26.00	30.00	30.00	38.00
Protection bulkhead, complete	....	1,350.00	1,300.00	1,500.00	1,200.00	1,350.00
Rip-rap	2,500 sq. yds.	1.10	1.00	.90	.25	1.00
Extra concrete under railways, per cu. yd	....	22.00	8.00	......	8.00	......
Rock excavation	18,600 cu. yds.	3.25	2.25	.26	1.50	1.15
Vitrified drain tile, 8-in	23,872 ft.	.18	.20	.25	.20	1.20
Timber left in ditch by order of the engineer, $21 per M.	....	21.00	21.00	21.00	21.00	21.00
Totals		$177,424	$175 339	$169,744	$169,020	$168,724

*PIPE SEWERS.—Boise City, Idaho.—Bids were opened Nov. 9 by Common Council, J. A. Beal, Cy. Clk., for constructing pipe sewers, the contract being awarded to JAMES KENNEDY, Fargo, N. Dak., the work to be completed by May 1, 1906. Price bid per lin. ft. includes excavation, and there is to be no repaving. Bids received for the work were as follows:

BIDS RECEIVED AT BOISE CITY, IDAHO, NOVEMBER 9, 1905, BY COMMON COUNCIL, FOR CONSTRUCTING PIPE SEWERS.

Name and Address	Manholes, 107	Connections, 4-in., 2-in., 19	2,633 lin. ft. 8-in. sewer, 6⅜-ft. trench.	1,600 lin. ft. 10-in. sewer, 6-ft. trench.	Flush line, 1,400 lin. ft.	Y's, 10 x 6	Y's, 8 x 6	Head gates 4	Totals.
James Kennedy, Fargo, N. Dak	$42.00	$10.00, $4.00	$0.72	$0.86	$0.40	$0.70	$0.69	$60.00	$26,906
Wheelwright Constn. Co., Ogden, Utah	45.00	15.00, 5.00	.81	.99	.43	1.00	.60	43.00	30,196
Hanley & Ritchie, Topeka, Kans	43.00	8.00, 4.00	.78	1.02	.38	2.00	2.00	45.00	30,902
Clement & Strange, Salt Lake, Utah	57.00	*	.93	1.15	.45	1.09	1.20	55.00	35,400
C. C. Stevenson, Boise, Idaho	52.00	20.00, 6.00	.95	1.05	.30	.90	.70	35.00	34,256
L. H. Goerig, Seattle, Wash	45.00	*	.73	.86	.30	1.00	.75	50.00	27,479
James Frainey, Portland, Ore	45.00	*	.70	.80	.70	2.50	1.25	5.00	27,948
J. P. O'Neill, Odgen, Utah	45.00	*	.90	1.05	.38	1.50	1.20	40.00	33,[illegible]00
Munn & Co., Nebraska City, Neb	47.50	*	.78	1.06	.32	1.25	1.00	30.00	29,744
Showell Bros & Belcher, Salt Lake, Utah	43.00	11.75, 4.50	1.05	1.37½	.35	2.00	1.50	64.00	37,905
T. Ryan, Seattle, Wash	45.00	*	.81	.99	.43	1.00	.60	43.00	29,722
Carlson Lusk, H. & Co., Boise, Idaho	60.00	*	.95	1.07	.47½	4.60	3.95	58.00	40,731
Liberty, P. & H. Co., Boise, Idaho	58.00	*	.89	1.09	.75	4.50	4.00	60.00	39,522
Idaho, H. & P. Co., Boise, Idaho	56.00	*	.92	1.10	.43	4.50	3.90	62.00	39,533

* Engineer's estimate, $167.00.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person who happens to be in charge of the office. If addressed to the consul by name they are forwarded to him unopened if he should be absent, and a delay thus intervenes; if he should in the meantime have gone out of office they may wholly escape attention.)

CARS, LOCOMOTIVES, ETC.—Italy.—The Board of Directors of the Meridronali Rys., head office of which is at Florence, Italy, have decided to convene an international competition for the supply of wagons, carriages and locomotives, to the amount of $10,000,000.

ELECTRIC PLANT.—England.—The London County Council will introduce a bill in Parliament to secure permission to construct a plant to supply all the electric energy for London and the suburbs. The cost is estimated at $40,000,000.

ELECTRIC TRACTION.—Switzerland.—An arrangement has been made between the Oerlikon works and the Siemens-Schuckert works, by the terms of which these two firms agree to undertake the introduction of electric traction on Swiss railways.

LEAD MINES.—Spain.—Compagnie Francaise des Mines de Berlanga is the name of a new company which has been formed for the purpose of working all kinds of mines, as well as for the working of the Chaparal, Juno and Pastora lead mines situated at Berlanga and Azuaga, province of Badajoz, Spain. The headquarters of the company are situated at 62, rue Saint Lazare, Paris, France. The capital has been fixed at $400,000. The following are the first Board of Directors: F. de Boffa, 34 rue de Washington, Paris; Victor-Alexandre de Jaworski, rue du Parme, and Alexander Rostan.

MINES.—France.—By a petition signed July 6, Auguste Boutin, of 86 rue Pinterie, Fougères, solicits a concession of the wolfram, tin, copper and other metal mines situated on the territory of the commune of Luitré, Fougères.

MINING MACHINERY. — England. — The U. S. Consul at Cardiff reports that that place offers opportunities for many kinds of American manufacturers. Mining is the principal industry, and there is a steady demand for tools, machinery, iron and steel goods, and steam and electrical appliances, etc.

COAL MINES.—France.—The Rhenish-Westphalian Coal Syndicate is forming a limited company called the Societe de Charbons, Cokes et Briquettes (The Coal, Coke & Briquette Co.) for the working of its possessions in Paris, Havre, Marseilles and St. Nazaire. The capital has been fixed at $30,000.

COAL MINES.—France.—Societe anonyme des Charbonnages d' Allas has been formed at Paris for the working of the coal fields of Dordogone. The capital has been fixed at $126,000. The Board of Directors consists of: Alfred-Joseph Ferry d' Andreïs, Paris; André Rouchon de Lignières Decazeville (Aveyron), and Jules Damas Conreur, Armentières (Nord).

MINING CONCESSIONS.—Italy.—On the initiative of Dr. Clito Bonzi and with the cooperation of the Credito Italiano and the Societa Coloniale Italiana, there has just been formed a company called the "Italiana Minere Corea," with headquarters at Milan, and with a capital of $48,250. The object of the company is to obtain mining concessions in Corea and elsewhere. The following have been appointed the first Board of Directors: Scheibler, Count Félice, President of the Societa Bancaria Italiana; Janni; Guisseppe, Managing Director of the Societa Coloniale Italiana; Gropello, Count Emilio, G. Cawston and Herbert, and E. M. Bourke.

TRAMWAY RECONSTRUCTION.—England.—A contract amounting to about $1,000,000 has recently been awarded to J. G. WHITE & CO., LTD., the London connection of J. G. White & Co., of New York, for the construction of a number of miles of tramway track in London. Tenders will shortly be invited by the London City Council for the reconstruction for electric traction of the first 22½ miles of the Northern system, which has just been acquired from the North Metropolitan Company. The work will begin next April, and is to be finished by the end of the

year. The track for the conduit system, it is estimated, will cost about $2,000,000, and the cars, electric cables and switchboards about $1,000,000. Four bridges over railways will have to be reconstructed and widened at a cost of $120,000, and two new car barns, as well as three sub-stations, built, calling for an outlay of $550,000. This brings the total estimated cost of the project up to nearly $4,000,000. In addition to the foregoing there are two sections of 46 miles and 36 miles of track on the Northern lines, which are shortly to be reconstructed. All of these new lines will necessitate the purchase of large quantities of power generating machinery.

ARTESIAN WELLS.—Ceylon.—The water obtainable along the route of the recently opened 256 mile long railway line from Colombo to Jaffna, is said to be so impure that the sinking of artesian wells has been suggested as a means to secure suitable supplies. Locomotive boilers deteriorate so rapidly from the use of the present water supply that some means of remedying this difficulty, as well as obtaining suitable water for drinking and culinary purposes, must be speedily adopted. Information can probably be obtained by addressing the local government through the Colonial Secretary, Colombo, Ceylon.

HIGHWAYS, BRIDGES.—Uruguay.—The General Government of Uruguay has negotiated a loan of $3,102,000 gold to be expended, under Government supervision, in the construction of public highways and bridges in the interior of the country, and that it is the intention of the Government to purchase the latest improved machinery to be used in the work. This will necessarily include road-making machinery, such as graders, stone crushers, and road rollers, and also steel bridges. The materials for making good roads, such as stone and gravel, are abundant and easily obtained, and the surface is of such character that roads may be graded without great difficulty. According to the report of the U. S. Consul at Montevideo there are excellent opportunities for Americans to participate in this work.

RAILWAYS, CANALS.—Argentina.—A law has been passed providing for the construction of a system of underground railways in Buenos Aires. According to the terms of the concession the contracting party shall construct the works at its own expense, and shall operate them for a period of not more than 40 years, at the end of which time they will become the property of the municipality. All materials for the construction and exploitation of the lines are to be admitted free of duty. German capital is reported as already interested in the matter. It is also proposed to construct a system of canals, to be built by private capital for the government, by which the port of La Plata will be connected with that of Buenos Aires. The canal is to begin at the entrance of the port of La Plata, and is to be built in two sections, the first to extend from the port of La Plata to that of the capital, the second to connect the port of the capital with the river Parana de Las Palmas. It is to be 26 ft. deep. The docks, in amplification of the existing ports, are to be 34 ft. deep, and capable of being deepened to 38 ft. without injury to the walls. At its bottom the canal is to be 131 ft. wide throughout its first section and 114 ft. throughout its second section, and within the defenses of the canal there shall be sufficient space in both sections for the doubling of its width at any time without interruption to navigation. This plan is the work of Señor Eduardo B. Madero, Engineer of the present port of Buenor Aires, assisted by Messrs. Hawkshaw and Dodson and other well known engineers. The probable or maximum cost of such a canal is estimated at $25,000,000 to $30,000,000 gold.

RAILWAY WORK.—Argentina, So. Am.—Carlos Krag, Civil Engineer, 309 Calle General Hornos, Buenos Aires, Argentina, writes us as follows (dated Oct. 21): The Argentine government last month approved the plans for the construction of a narrow gage railway from Dean Funes to Rosario, with a branch line to Villa Maria, Argentine Republic, the construction of which will soon be open to public bidding. As most of the local contracting firms have their hands full with work, Mr. Krag thinks competition will be scant, and there is undoubtedly an opening for foreign contractors with capital. Mr. Krag writes that he would like to be placed in correspondence with firms that wish to compete. He would then, providing the necessary references, act as their agent on the spot, procure the necessary information, forward plans and specifications, etc., on the condition that he receive a fixed sum when the firm obtained the contract, all expenses to be borne by the firm. The line will be 488.8 kilometers long and the branch line 79.5 km., giving a toal of 568.3 km., and the official estimate is $7,956,971.20 gold for the main line and $1,088,911.50 gold for the branch, giving a total of $8,945,882.70 gold. Mr. Krag sent us a small scale profile of the line. The payment is to be either cash or government bonds to suit the government's convenience, thus two prices are to be given for each item, the value of the bonds are fixed by the quotation of the day. The same way of payment was arranged for two other lines at present under construction, but the government has so far only paid with cash, because the bonds have risen nearly 30 points. As regards the profits of such constructions in this country, Mr. Krag mentions the following: The local contractors are rarely capitalists, but the bankers and financiers stand ready to supply the money for the modest renumeration of 10% on the total contract sum. The unit prices are generally calculated thus: Cost price plus 10% for unforseen expenses plus 20% for profit; to this is then added the 10% for "gastos financieros." The interested firms should loose no time, as only six months are allowed for the study of the projects. Mr. Krag's cable address is "Krag, Buenosaires." A profile design of the proposed work may be seen at the office of Engineering News, 220 Broadway, New York.

CIVIL SERVICE EXAMINATIONS

DRAFTSMAN, ETC.—U. S. Civil Service Commission, Washington, D. C., has announced examinations for the following positions: Topographic draftsman, Dec. 13-14, to fill vacancies in that position in any branch of the service; Assistant Examiner, Dec. 6-7, to fill two vacancies in the position of fourth assistant examiner in the Patent Office, at an entrance salary of $1,200 per annum and similar vacancies; Nautical Expert, Dec. 6, to fill two vacancies in the position of Nautical Expert at $1,000 per annum each, in the Hydrographic Office, Washington, D. C., and one vacancy at $1,000 per annum in the branch Hydrographic Office, Cleveland, O., and similar vacancies; Electrical Assistant, Dec. 6, to fill about six vacancies in the position of electrical assistant in the Signal Service at Large, for a period not exceeding six months, at $75 per month, and one permanent vacancy at $900 per annum at Washington, D. C.; Computer, Dec. 6, to fill a vacancy in the position of computer in the Forest Service, Bureau of Forestry, Department of Agriculture, at $1,000 per annum and similar vacancies.

CONTRACT PRICES.

FLUSHING TUNNEL.—Brooklyn, N. Y.—Following bids were opened Nov. 15 by Martin W. Littleton, Borough President, for the construction of a flushing tunnel for the improvement of Gowanus Canal; (1) Borough Construction Co., 44 Court St., Brooklyn; (2) Jas. Malloy & Co., Brooklyn; (3) Jno. Peirce Co., 277 Broadway, New York:

	(1)	(2)	(3)
6,270 lin. ft. flushing tunnel	$135.00	$130.00	$100.00
8,200 cu. yds. additional brick masonry	.01	.01	.01
4,100 cu. yds. additional concrete masonry	.01	.01	.01
1,600 cu. yds. concrete masonry	13.75	10.00	8.00
4,500 cu. yds. excavation	4.30	1.00	.60
8,500 lin. ft. bearing piles	.23	.30	.30
1,250 lin. ft. fender piles	.40	.40	.65
113,000 ft. B. M. temporary sheet piling	62.00	50.00	60.00
182,000 ft. B. M. permanent sheet piling	66.00	50.00	60.00
280,000 ft. B. M. foundation planking	.01	25.00	50.00
20,000 ft. B. M. pile capping	54.00	40.00	60.00
280,000 ft. B. M. sheeting and bracing	.01	30.00	50.00
900 lin. ft. 12-in. pipe sewer	.01	2.50	1.00
60 lin. ft. 15-in. pipe sewer	.01	2.50	1.67
560 lin. ft. 18-in. pipe sewer	.01	3.00	2.00
680 lin. ft. 24-in. pipe sewer	.01	4.50	3.00
20 lin. ft. 36-in. brick sewer	.01	5.00	6.00
20 lin. ft. 60-in. brick sewer	.01	15.00	12.00
20 manholes	.01	55.00	100.00
1,800 lin. ft. 6-in. house c'nect'n pipe drain	.01	.30	.60
264 sq. ft. bluestone coping	2.00	.50	.50
280 lin. ft. granite coping	11.00	10.00	5.00
6,400 lin. ft. 12-in. pipe sub-drain	.01	.01	.01
35 tons steel I-beams	60.00	80.00	100.00
6½ tons wrought iron	279.00	75.00	100.00
33 tons cast iron	69.00	70.00	80.00
28½ tons steel rods	62.00	80.00	100.00
5,000 cu. yds. dredging	1.88	.50	.75
Totals	$931,552	$892,276	$715,472

INDUSTRIAL NOTES.

THE LEHIGH VALLEY TESTING LABORATORY has been incorporated by Robert A. Cummings, M. Am. Soc. C. E., and Ernest B. McCready, late Asst. Engr., Dept of Inspection of Material, Board Rapid Transit Comrs., New York, as General Manager. The offices are located at 4 Smithfield St., Pittsburg, Pa.

DIETRICH BROS., 344-362 North St., Baltimore, Md., has been awarded the contract for ammunition hoists, bids for which were opened by Maj. F. V. Abbot, U. S. Engr., at Washington on Nov. 3.

THE OTIS ELEVATOR CO., N. Y., recently closed through the Pittsburg office an order for a single installation of 44 freight elevators in the new building of the Pittsburg Terminal Warehouse Co., of Pittsburg. These elevators have a lifting capacity of 6,000 lbs. and a car travel of about 100 ft.

THE ROBINS CONVEYING BELT CO., New York, has just closed a contract with Bartlett, Hayward & Co., of Baltimore, for belt conveyors intended for the retort house of the Astoria Light, Heat & Power Co. Among other works this company now has on hand is the manufacture of belt conveyors and elevators for the Burnham Coal Co., of Boston, and of belt conveyors for the U. S. Smelting Co., Salt Lake City.

THE CORRESPONDENCE SCHOOL OF AUTOMOBILE ENGINEERING has removed from Akron, Ohio, to the Flatiron Bldg., New York. The school has been reorganized and is now incorporated under the laws of New York, with a capital of $30,000. R. E. Olds has succeeded A. J. Saalfield as president; R. M. Owen has become treasurer in place of E. R. Adam, and Robert H. Montgomery is secretary, instead of G. S. Rowe. Victor Lougheed will continue as vice-president and general manager.

A PNEUMATIC TOOL OUTFIT for steel car building was recently furnished to the American Car & Foundry Co. by the Ingersoll-Sergeant Drill Co., and is now being used to turn out a rush order of 100 steel passenger cars for the Metropolitan Ry. of London. The outfit includes eighteen 8-in. and twenty-five 5-in. Haeseler riveting hammers and sixteen No. 7 and twenty-four No. 12 Haesler rotary drills, 83 tools in all. Compressed air is furnished by four duplex two-stage compressors belted to 110-HP. Westinghouse electric motors. The compressors are driven at 15 r. p. m., and the four furnish at that speed 2,104 cu. ft. of free air per minute compressed to 80 lbs. per sq. in.

THE DE LA VERGNE MACHINE CO., of New York, which has recently completed its contract for 40,000 HP. of Koerting two-cycle double-acting gas engines, of which 32,000 HP. is employed for driving blowing engines and 8,000 HP. for driving direct current, and polyphase alternating current generators, have recently been given a contract for three 500 HP. Koerting gas engines to be direct-connected to 325 KW., 550 volt direct-current Crocker-Wheeler generators for the Boston Elevated Co. These engines will be put in operation about Jan. 1st. Owing to the increasing southern business of the past year the De La Vergne Machine Co., of New York, has established a branch agency in Atlanta. This agency is to cover North Carolina, South Carolina, Alabama, Florida and Georgia. This agency will handle business connected with the three lines of machinery manufactured by the De La Vergne Machine Co, viz.: Refrigerating and ice making machinery, "Hornsby-Akroyd" oil engines and Koerting gas engines. Their representative will be Mr. W. M. Hargreaves, and the office will be located at 510 Candler Bldg., Atlanta.

THE WESTINGHOUSE MACHINE CO., of East Pittsburg, Pa., manufacturers of the Westinghouse-Parsons steam turbine, has, within the last few weeks, received orders for turbines, among them being one from the Lumberton Cotton Mills, Lumberton, N. C., for one 300-KW. turbine; The Waltham Gas Light Co., Waltham, Mass., four 500-KW. turbines; The Gulfport & Mississippi Coast Traction Co., Gulfport, Miss., two 500-KW. turbines; The Suburban Electric Co., Scranton, Pa., one 500-KW. turbine; The Pennsylvania Light & Power Co., Pittsburg, Pa., one 500-KW. turbine; The Water, Light & Gas Co., Hutchinson, Kan., one 500-KW. turbine, and from The Winston-Salem Power Co., Winston-Salem, N. C., one 750-KW. turbine. The turbine ordered by the Lumberton Cotton Mills will be of the multiple expansion parallel flow type, driving a 60-cycle direct-connected generator running at 3,600 r. p. m. It will operate at 150 pounds steam pressure and 26-in. vacuum, and deliver three-phase current at 440 volts. The turbines for the Waltham Gas Light Co. will be of the same type and frequency, operating at 3,600 r. p. m., with dry saturated steam at 175 lbs. gage pressure and 28-in. vacuum. The alternating current generators will be of the rotating field turbo type delivering three-phase current at 2,300 volts. The Suburban Electric Co.'s turbine with characteristics similar to the above will operate with dry saturated steam at the throttle of 150 lbs. gage pressure and with atmospheric pressure in exhaust pipe, and will be capable of developing 750 B. H. P. The turbines for the Gulfport & Mississippi Coast Traction Co. will operate under 150 lbs. pressure, 28-in. vacuum and 100° F. superheat, and will be direct connected to 60-cycle turbo generators running at 3,600 r. p. m. An order has also been received for four 500-KW. steam turbines for the Union Station at the Washington terminal of the Pennsylvania Railroad, adapted for driving alternating current, 60-cycle generators running at 3,600 r. p. m. Dry saturated steam will be used at 150 lbs. pressure and 25-in. vacuum, and the turbines will be capable of developing 670 electrical HP. each. The alternating current generators will be of the turbo rotating field type with two poles and a frequency of 7,200 alternations per mniute at a normal speed of 3,300 r. p. m. They will deliver three-phase current at 2,300 volts, and, being of the enclosed type, will operate practically without noise.

THE UNITED STATES SECTION, International Exposition, to be held at Milan, Italy, between May 1 and Oct. 31, 1906, has issued through its commissioners, Prof. J. H. Gore, of the George Washington Univ., Washington, D. C., and L. S. Ware, 54 rue de la Bienfaisance, Paris, France, a circular giving a few facts about the coming exposition. The circulars give the following information: "In order to appropriately celebrate the completion of the Simplon Tunnel an International Exposition under Royal patronage will be held in Milan from May to November. It will be the largest European exposition ever held outside of Paris. Practically all of the European countries will participate officially as well as several of the Asiatic nations. In the transportation section, retrospective exhibits will show the historical development of the various methods of travel. The dominant feature will be motion. All products, as far as possible, must be shown in connection with the processes, thus filling the halls with live exhibits. Arrangements will be made for extensive tests and competitive trials in the field where it is expedient. An important feature will be the automobile display to which an entire pavilion will be devoted. The show will terminate in mid-summer so that machines exhibited may be sold for early delivery. The marvelous industrial and economic development of the Kingdom during the past decade has made Italy the best European market for those products that the United States can well supply. The great success that attended the Turin Exhibition of Decorations has prompted the Milan authorities to set aside a special pavilion for Decorative Arts. They are very desirous to see the United States well represented in this section. One large building will contain all forms of welfare work, grouped under the several heads: Mutual assistance and insurance, co-operation, savings institutions and popular credit, protection of labor and insurance against enforced idleness. Milan is the center of the most productive section of Italy. Its population is 1,500,000, while Lombardy, no part of which is more than three hours distant, has nearly 5,000,000. Genoa, the port of entry, is less than 100 miles distant. The cost, therefore, of transporting exhibits from the United States will be comparatively cheap (for rates apply to North German Lloyd S. S. Co., 5 Broadway, New York). Owing to the fact that a large proportion of the labor is employed in the shops and factories, there is available only a small number of food producing workmen. This makes it imperative that supplies be secured from abroad. The authorities of the exposition recognizing this condition will inaugurate about June 15 a special food show. For terms of space or further information, application should be made to Prof. J. H. Gore, Washington, D. C., or L. S. Ware, in Paris."

ENGINEERING NEWS has published over 450 inches more paid proposal advertising since January 1st than any other paper in the world—it reaches responsible contractors.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 180.

21 MILES OF RAILWAY WORK.

Brookville & Mahoning Railroad Company,
Engineering Department,
Brookville, Pa., Nov. 20, 1905.

Sealed proposals will be received until 12 M., Dec. 10th, 1905, for the construction of about 21 Miles of Railroad, involving about 500,000 cu. yds. of Excavation, 200,000 cu. yds. of Borrowed Embankment, 20,000 cu. yds. Bridge and Culvert Masonry, 700,000 lbs. of Culvert Pipe, 12, 18, 24 inch diameter, 1,900 tons of Steel Bridges and Viaducts.

Profiles, specifications and all information pertaining to the work may be obtained at the Chief Engineer's Office, at Brookville, Pa.

The right is reserved to reject any or all bids.

W. W. HENSHEY,
Chief Engineer.

21-1t

GARBAGE CREMATORY.

Office of City Clerk,
Grand Rapids, Mich., Nov. 6, 1905.

Sealed proposals will be received at this office till five o'clock in the afternoon of Monday, November 27, 1905, for the construction of an eighty (80) ton garbage crematory. Each bid must be accompanied by a certified check in the sum of Five Hundred Dollars as a guarantee that a contract will be entered into in accordance with the terms of the proposal made.

Specifications and additional information may be received upon application to the City Clerk or the Board of Health.

JOHN L. BOER,
City Clerk.

19-3t

DREDGING.

Contractors who are in a position to do a dredging job of practically 17,000 yards before January 1, 1906, will address us immediately for general statement of requirements and specifications.

MANHATTAN TRAP ROCK CO.,
W. R. Fralick, Supt.,
Nyack, N. Y.

21-2t

U. S. ENGINEER OFFICE, 28 North 9th St., Richmond, Va., Nov. 22, 1905.—Sealed proposals for dredging, removing rock, and constructing and repairing jetties in James River, Va., will be received here until 12 M., Dec. 22, 1905, and then publicly opened. Information on application to S. H. Yonge, Asst. Engr. R. L. HOXIE, Lt.-Col. Engrs. 21-4t

SITUATIONS OPEN

WANTED.—At once, a draftsman well up in structural steel and capable of determining lay out of machinery. Must have had experience in this line, and be able to work neatly and accurately. Applicants will state salary expected. ALSEN'S AMERICAN PORTLAND CEMENT WORKS, Alsen, Greene Co., N. Y. 21-1t

Supple

CONSTRUC
Plans a
List of
Railway
Electric
Light a
Bridges
Buildin
Water
Sewera
Garbag
Streets
Manufa
Miscell
Mexico
Contrac
READERS
INDUSTRI
TRADE P
PROPOSA

PLANS

The follo
ding Sheet
gineering
York:

Bids
close.

Dec.
*1—Crush
*2—Drill
2—Conc
2—Conc
*5—Dam.
*5—City
*6—Intak
9—Elect
*10—Railr
*15—Irrig
*15—Teleg
*18—Gas
*29—Irrig
* —Steel

Jan.
*2—Wat
*12—Sewe
16—Pipe

*Work

NOTE—
bidding s
work for
contracto
If more
distribut
the work
the plans
tisement

LI

Bids clos

Dec. 2.

Dec. 2.

Dec. 4.
Dec. 5.

Dec. 7.
Dec. 16.
Dec. 18.

Dec. 2.
Dec. 4.
Dec. 4.
Dec. 4.
Dec. 4.
Dec. 5
Dec. 5
Dec. 6

Dec. 7
Dec. 7
Dec. 7
Dec. 8
Dec. 9
Dec. 15
Dec. 18

Dec. 18
Dec. 19
Jan. 1
Jan. 1
Jan. 2
Jan. 2